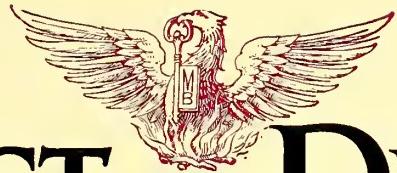


*The*



# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JUNE 19 1954

*it pays to*  
**Sell  
'DISTAFEED'**  
brand

## FOR YOUR FARMER CUSTOMERS

the use of 'Distafeed' products means healthier stock and more profit through the economical use of feeding stuffs.

**FOR YOU** the carrying of 'Distafeed' products means an expanding farming trade with good return through the sale of products for which you are the ideal distributor.

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in containers of 1 lb., 10 lb. and 50 lb.  
through your usual wholesaler.

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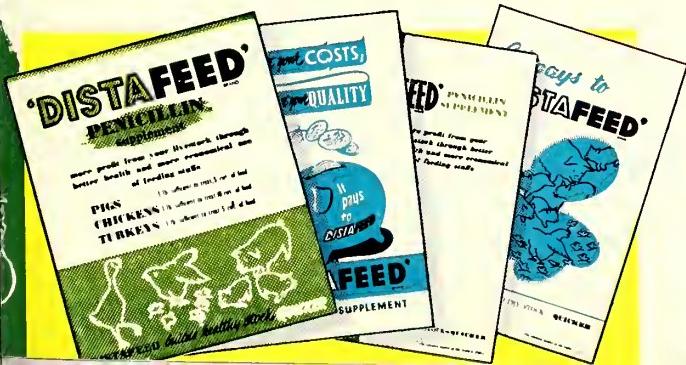
Write to us direct for a supply.

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**THE DISTILLERS COMPANY**

(*Biochemicals*) LTD

Speke, Liverpool





**NEW  
Pocket Pack  
12 Tablets 1/6**

**Last week of the  
13 - to - the - dozen  
INTRODUCTORY  
OFFER**

# TABASAN for asthma

The handy size and modest price of the new Tabasan Pocket-pack has achieved instant success all over the country—for asthma knows no boundaries.

The new Display carton takes up the minimum counter space—try it on *your* counter and see it sell!

**9/- per dozen plus 25% P.T.  
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Telephone Royal 8282

# Announcement

## Reduced Prices for

### **RAUWILOID**

We have pleasure in informing Pharmacists that the immediate response of the Medical Profession to the introduction of Rauwiloid brand alkaloids of *Rauwolfia serpentina* for the treatment of hypertension enables us to effect reductions in its cost.

**From 21st June, 1954, retail prices will be as follows:**

Rauwiloid (each tablet containing 2 mg. of alkaloids)

	<i>Old Price</i>	<i>New Price</i>
<b>Bottles of 60 tablets</b>	24/-	18/-
<b>Bottles of 500 tablets</b>	168/-	126/-

Subject to our usual trade discounts

Rauwiloid is exempt from Purchase Tax

**IMPORTANT:** Supplies of Riker products are distributed only through wholesalers. Applications, stating batch numbers, for credit on goods already in stock on 19th June should be accompanied by the names of the wholesalers from whom obtained.

"Rauwiloid" is a Registered Trade Mark

Regd. Users

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**MORLEY STREET, LOUGHBOROUGH, LEICS.**

Tel. No. 4301/2

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The reliable Antimalarial

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*At your finger tips.....*



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*Medical Beauty Products on Bonus Terms*

Throughout the spring and summer our wonderfully successful twice weekly programme "Dreamtime" from Radio Luxembourg will feature

Crookes Lacto-Calamine, now available only in 4 oz. bottles, the new Crookes Hand Cream—the product which the Mount Everest climbers chose to use on their faces and hands—and the brand new Crookes Hand Lotion which, we are confident, will prove yet another winner in our range of Medical Beauty products

Full particulars of the new display material, dressed window shows, bonus terms, etc., etc., will be supplied on request.



PATA

**CROOKES**

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**Lacto-Calamine  
Hand Cream & Lotion**

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**IT PAYS TO DISPLAY**

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**BRITAIN'S GREAT INSECT KILLER  
FOR BIGGEST PROFITS**

**Wimzo** ALWAYS MEANS CLEAN HANDS

ASK YOUR WHOLESALER, OR WRITE:  
**WIMSOL LTD., KEIGHLEY, FOR TERMS**

*The number still rising . . .*

**ABOUT 1,700 PHARMACIES NOW PROVING  
THE VALUE OF THE**

*Free-of-cost*

**Certor**

## WRAPPING PAPER CABINET

### FREE WITH £10 ORDER

You get the Certor Paper Cabinet free with this order for Certor Dispensing Parchment

Size	No. of Reams	Cost per Ream	Total Cost
Powder	2	1 8	0 3 4
1 oz.	2	2 6	0 5 0
2 oz.	3	2 11	0 8 9
3/4 oz.	4	4 8	0 18 8
6 oz.	2	5 8	0 11 4
8/10 oz.	14	6 9	4 14 6
12/16 oz.	6	9 9	2 18 6
		£10 0 1	



Every day the number of orders for the free-of-cost Certor Wrapping Paper Cabinet is going up. This popular cabinet, strongly made of wood, with oak finish, is now in use in about 1,700 dispensaries.

The seven sections hold one ream of each size of Certor Dispensing Parchment (packed in cartons). The paper is always compact, convenient, clean. There is no waste. Time is saved in your bottle-wrapping.

Order one of these useful cabinets to-day.

*If desired, one half of the order can be sent with the cabinet, and the other half three months later.*

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**In packed  
and labelled  
Pharmaceutical  
Products**

- A good and useful range
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- Guaranteed quality
- Your name on attractive labels to ensure repeat business
- Quick delivery

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Manufacturers of Maoriland Indigestion Tablets, Penetrol Inhalants, Labelline

*A postcard will bring you full particulars or a call from our representative*

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# Aspirin toleration

## *The answer*

The answer to the acidity and low solubility of aspirin, and to those gastric and systemic disturbances which sometimes hamper aspirin therapy, is *stable* calcium aspirin taken in solution. This 'Disprin' tablets provide.

Disprin not only overcomes the two well-known defects of ordinary aspirin ; but also that of calcium aspirin as generally prepared, which is a liability to chemical

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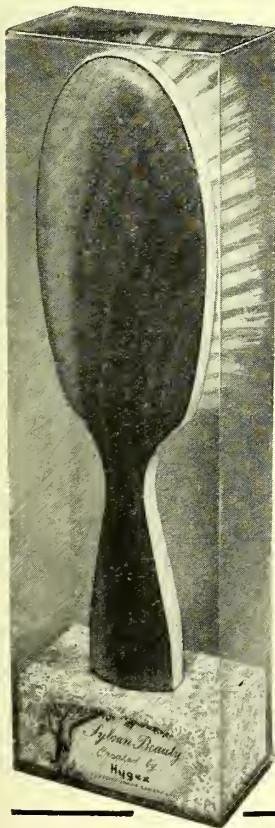
**DISPRIN** REGD. Provides *stable, soluble, palatable calcium aspirin*

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the NEW



**CONTEMPORARY  
TOILET SET**



Set packed  
in handsome  
presentation case  
or Hairbrush only  
in acetate capped  
pack



This delightful set captures the sylvan beauty of choice natural woods and is styled to harmonise with contemporary furniture.

The backs are of Mahogany, Sycamore or Walnut laminated on a Beech base, beautifully shaped in flowing modern lines.

- Choice of three styles:  
Mahogany on Beech.  
Sycamore on Beech.  
Walnut on Beech.
- Set comprises Hairbrush, Mirror,  
Clothes Brush and Comb.
- Attractive Showcard available.

*Please let us know your Christmas requirements early.*

**HENDERSON BROS. & CO., LTD.**  
*Pallion Trading Estate, Sunderland.*



for all your **TABLETS**

**ARTHUR H. COX & CO. LTD. BRIGHTON**

\* It's new . . . it's better!



*the haircream  
with the bay rum base  
and with powerful advertising  
in*

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For every  $2\frac{1}{2}$  dozen you buy  
we give you six free on a total  
outlay (including tax) of  
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This introductory display bonus  
is offered providing you agree  
to display Keg prominently on  
your counter for a period of  
3 weeks. This offer will  
close on June 30th.



# **Popular choice for vitamin supplementation**

Even in a community in which diet is adequate there are times when supplementation is desirable. At such times Multivite's convenient presentation of vitamins A, B<sub>1</sub>, C & D<sub>2</sub> in high concentration and its pleasant flavour make a strong appeal.

# MULTIVITE

**TRADE MARK**

PRICE : PHARMACISTS RETAIL  
Bottle of 50 pellets 2/4 3/6

MLT/T/4

THE BRITISH DRUG HOUSES LTD. LONDON N.1

# *White Glass Bottles*



## *Medical Flats*



## Tablets

# PROMPT DELIVERY FROM STOCK

WHOLESALE ONLY

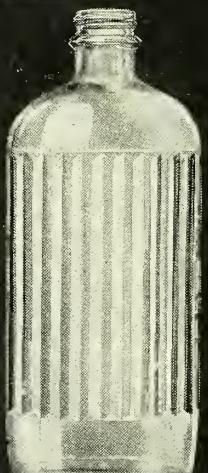
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A. OPPENHEIMER (BOTTLES) LTD.  
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**GREGG & CO (KNOTTINGLEY) LTD.**

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### *Ribbed Ovals*

# a fine case

OF LESSENING PAIN  
AND INCREASING SALES

- **3-FOLD THERAPY—**  
Heat + Massage + Infra-red.
- **LOW VOLTAGE—**  
operates at 6 volts.
- **SIMPLE—**  
in construction and use.
- **GUARANTEED—**  
for 12 months against failure.



RETAIL PRICE  
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(complete,  
inc. P. Tax)

## Thermasseur

THE SAFE AND SURE ELECTRIC HOME MASSEUR

Right from the start the Thermasseur was a success. Unique and unrivalled for 3-fold Therapy giving Heat + Massage + Infra-red, it sells to all pain sufferers. Arthritic, fibrositic, sciatic and rheumatic patients want it because it is safe to apply personally and effective on persistent application. Injured athletes and other convalescents like it because it is portable, hygienic and can be used for any part of the body. Fatigued workers and housewives demand it because it quickly soothes, is light in weight, compact and self-contained. You can sell the Thermasseur any day and every day.

Brit. Patent No. 672,151.



The Thermasseur has also been favourably reviewed by beauty experts who commend therapy to eradicate under-the-skin ills that undermine health and vitality.

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Arising from research in the Manesty Works, important improvements have been made in the range of Manesty Tabletting Machines. The models illustrated are of particular interest because of their performance and ease in operation. Write today for full details of these machines.

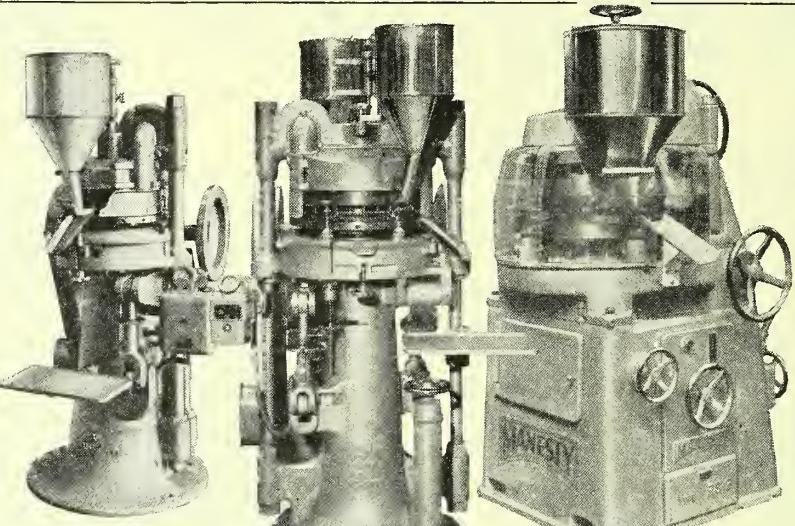
\* \* Have you read this book? "Tablet Making"—An Authoritative volume by H. Little and K. A. Mitchell. 123pp. 47 illustrations, 31 formulæ. Cloth bound. 15/- net post free.



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Show 'Elasto' — It Sells on Sight! ★

**Elasto**  
*THE BIOCHEMIC TABLET*  
Retail Price  
(incl. P.T.)  
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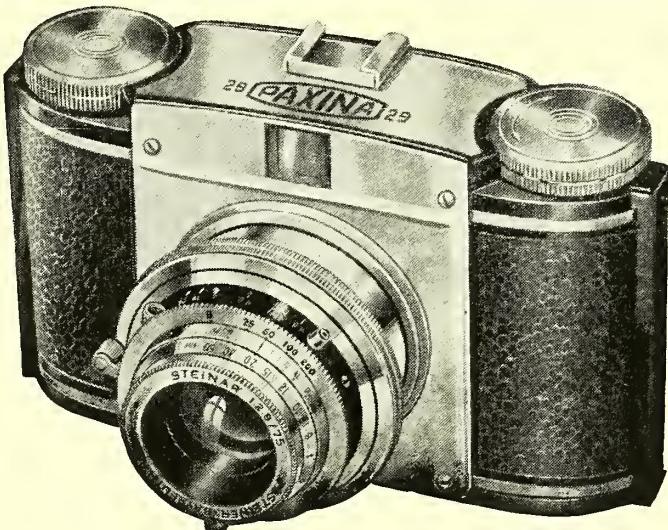
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Filter Mount 34mm.	- - - - -	9 : 0
Colour Filters 31mm. All colours except Red	- - - - -	5 : 9
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We recommend Ferrania P3 or S2 Superpanchromatic film for Paxina 29



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THE NATION'S SUPER-SALESMAN SAYS:



**"... good thing to keep  
some ELASTOPLAST on  
the counter"**



ELASTOPLAST is not a fad-or-fancy buy. It is a necessity in every home in your district—and this ELASTOPLAST advertisement will be seen in sixty out of every hundred of those homes for nine days. This is the first of a series of ELASTOPLAST advertisements to run through the whole of 1954—these advertisements will pull—see they pull your way. Show ELASTOPLAST on your counter and in your windows.

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*All enquiries to : HEAD OF ADVERTISEMENT DEPARTMENT,  
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# An Immediate Success!



## ARTHIGON

The New  
DEEP - PENETRATION CREAM  
for the relief of RHEUMATIC PAINS

Though only just launched, repeat orders for ARTHIGON are already arriving.

And this during Summer! It is certain that by Autumn, ARTHIGON will be firmly established in the immensely wider market which colder temperatures will create.

You can promote sales of ARTHIGON with every confidence because ARTHIGON *really works*, quickly and positively. Make sure you have ample stocks to meet the insistent demand created by the big advertising campaign Maw's have undertaken.

**★** Remember, ARTHIGON carries a profit of 50% to you, i.e. 21/- per 6-jar carton. Keep it well displayed on your counter and get your full share of this notable new business

S Maw Son and Sons Limited Barnet England

During the Summer...

# 68 MILLION ADVERTISEMENTS

WILL FEATURE THE

## Quosh GIRL

— YOUR NEW SALES ASSISTANT!

She'll be winning sales through the Press; London Posters, Cinema Screens and New Colourful Display Material... She's going over in a BIG way... Make use of her services!

7 D PROFIT  
on every bottle!

ORDER  
CARTERS  
**Quosh**  
PURE FRUIT SQUASH  
**NOW!**  
FROM YOUR  
WHOLESALER



COUPON - Send NOW for Display Material

To: H. W. CARTER & CO. LIMITED,  
The Royal Forest Factory, Coleford, Glos.



Six Bottle Stand (0.82)

Single Bottle Stand (0.83)

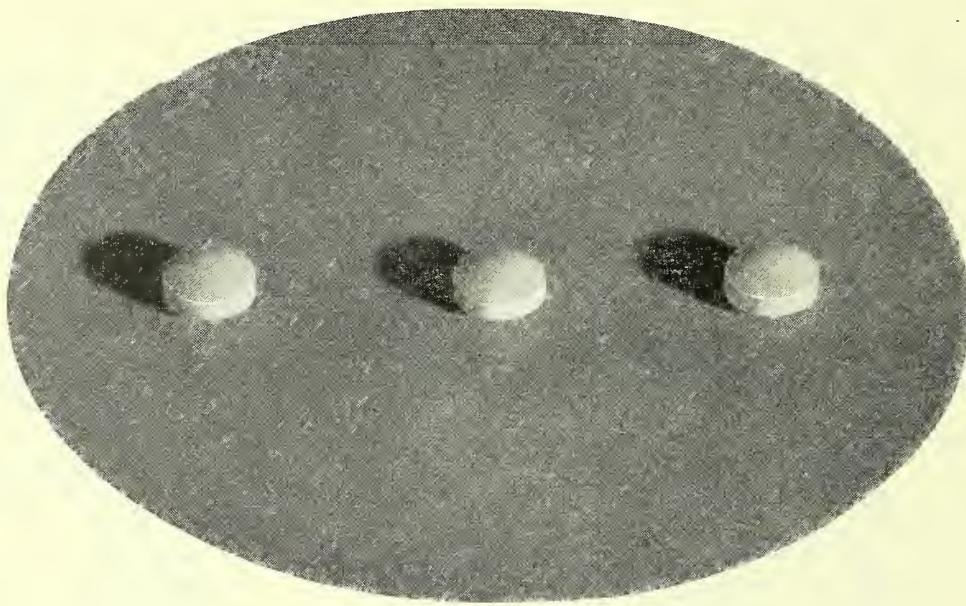
Single Bottle Crowner (0.90)

Large 'Girl' Showcard (0.87)

(20" high — not illustrated) Tick as required

Name.....

Address.....



Consistent . . . . . every one alike !

Shape, weight, appearance and above all  
active ingredients.

No matter whether it be hundreds,  
thousands, or millions, the quality of  
Thompson & Capper's Tablets is some-  
thing the pharmacist doesn't have to  
worry about.

**THOMPSON  
AND  
CAPPER  
FOR  
TABLETS**



*Petal Soft*

# Modess Masslinn

The greatest advance in sanitary protection  
is here to make sales for you!

**NEW WONDER FABRIC** Modess MASSLINN are covered with a luxurious, "petal soft" material of rayon and cotton. Every bit as strong as ordinary materials yet so much softer and kinder.

**Modess MASSLINN** are featherlight in wear with specially flattened ends to ensure invisibility under the sheerest gown. They have additional protection to prevent clothes being soiled, and for complete reliability the loops are stitched to the towels.

**COTTON WOOL COMFORT — SOLUBLE PRICE** New Modess MASSLINN bring your customers just that! Never before in the development of sanitary towels has there been such a step forward.

**BIG ADVERTISING AND DISPLAY SUPPORT** In newspaper spaces and in full page, full colour magazine advertisements, millions of women will read about Modess MASSLINN. In addition, many unique full colour sales aids will bring customers into your shop to buy these new wonder towels.

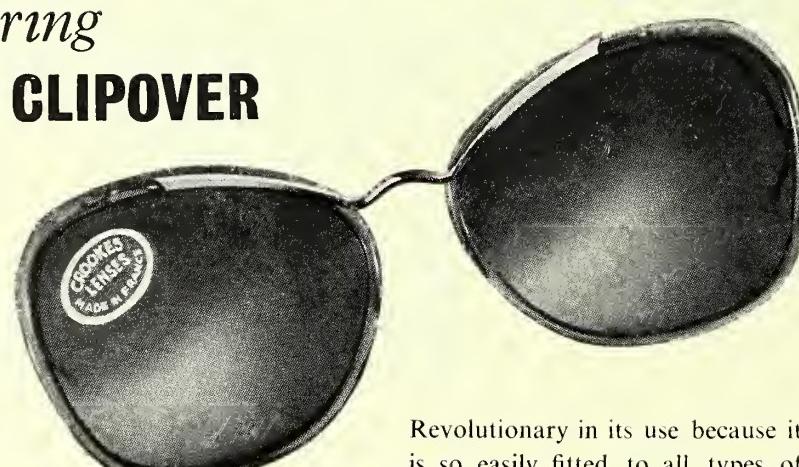
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*Johnson & Johnson (GT. BRITAIN) LTD., Personal Products Division, WREXHAM & LONDON*

*Good looking in the SUN*

# Bartlett's 1954 Protector BRAND Sun glasses

*featuring*  
**NEW CLIPOVER**

Revolutionary in its use because it is so easily fitted to all types of spectacle frames, made in 3 sizes with Crookes Lenses, in plastic frames, colours — crystal rose or shell.

★

**Order from  
YOUR  
WHOLESALE**

*Write NOW for  
your free copy  
of the 1954  
Bartlett Booklet*

Retail      With Rhodoid unbreakable lenses (one size only).

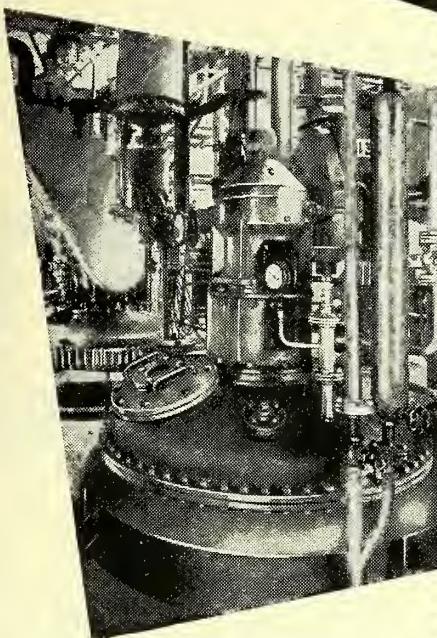
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**ALFRED FRANKS & BARTLETT CO., LTD.**  
**226/8, GRAYS INN ROAD · LONDON · W.C.I.**

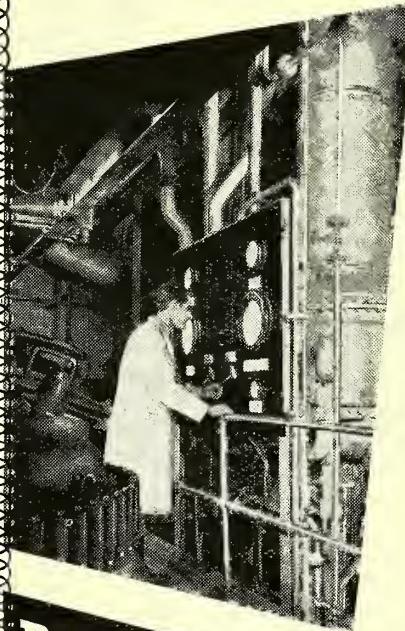
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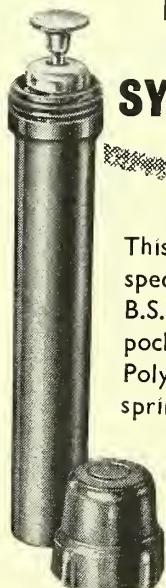
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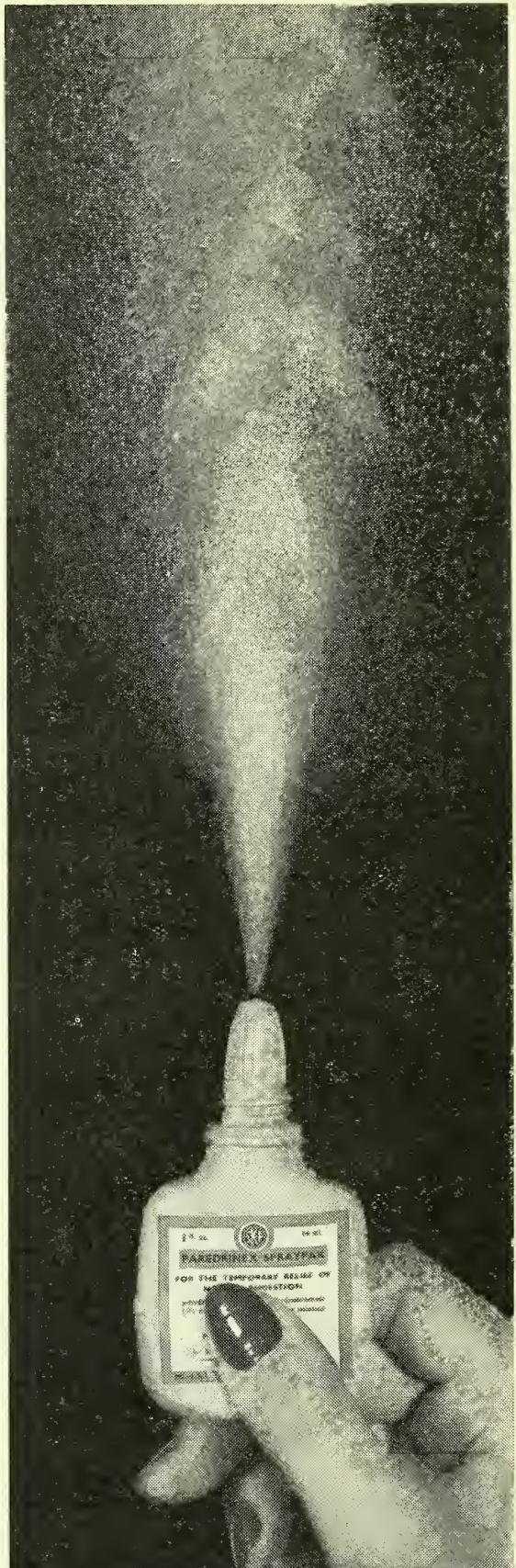
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 161

June 19, 1954

No. 3878

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# The CHEMIST AND DRUGGIST

Volume 161

JUNE 19, 1954

No. 3878

## Container Costs Inquiry

### WHITLEY COUNCIL'S "ACTUARIAL" SURVEY

TWO thousand chemist contractors in England and Wales are being asked to give precise details of the containers they issue to and have returned to them by National Health Service patients during the week June 20-26. They are also being asked to give costs and other data.

The purpose is to find the proper level at which the container allowance should be set in the conditions of today. The forms are being sent from the Ministry of Health, but have been drawn up by agreement between the management side of the Pharmaceutical Whitley Council (i.e., the Ministry) and its staff side (the Central N.H.S. (Chemist Contractors') Committee).

Chemists selected to take part have been picked statistically so as to represent every type and size of business. A similar inquiry is being carried out in November.

A small square is provided on the form for each container used. Chemists who receive the form should note that no entries should be made for proprietaries, dressings, etc., issued in original containers, and only containers that can be cleaned or reissued should be entered among the returns. In the appropriate section should be entered any breakages that occur during the survey period; any bottles that have to be discarded because of flaws; any breakages that have occurred in transit or storage and are discovered in drawing on stock for use during the survey period. From each contractor questioned an estimate is required of the percentage rate of loss of containers through manufacturing flaws or minor damage (e.g., chipped necks) and of the "normal" breakage rate experienced in the business. Both estimates should be based on general experience in the business and not on what occurs during the survey week.

### DOCTORS' PRICE LIST

#### New edition published

THE Ministry of Health has published a new edition of the list giving the prices of National Formulary and other "official" preparations and of proprietary medicaments. 121 proprietary medicines are set against named "official equivalents." Sixty-five of them are more expensive than their equivalents. The remaining proprietaries are either cheaper or the same price as the equivalents. In the original list published in October 1953, 124 such medicines were given, out of

which sixty-four were more expensive than their equivalents. The ingredient cost is that for April 1954.

### DENTAL REGULATIONS Addition to list of drugs

TO the list of drugs which dental practitioners may prescribe under the National Health Service are added injections of procaine benzylpenicillin with or without benzylpenicillin. That amendment is made in the National Health Service (General Dental Services) Regulations, 1954 (S.I. 1954, No. 742; H.M. Stationery Office, price 1s. 3d.).

### TRADE WITH CHINA List of permitted exports

THE list of goods not subject to official export embargo which was handed to the representatives of the Chinese Government at Geneva recently (see C. & D., June 12, p. 589), has now been issued. Among the drugs and medicinal preparations mentioned are: Vitamins, hormones, alkaloids, antibiotics, serums and vaccines, antipaludics, sulphonamides and bulk pharmaceutical chemicals. Elsewhere under other groups saccharin, glucose, urea, tannic acid, oxalic acid, alginates, soda ash, caustic soda, sodium bicarbonate,

safety razors and blades are also listed.

### MEDICAL CONFERENCE N.H.S. prescribing discussed

AT the annual conference of representatives of local medical committees held in London on June 3, DR. A. TALBOT ROGERS (chairman of the General Medical Services Committee) said that he had sought an interview at the Ministry of Health immediately after the House of Commons debate on drug prescribing (see C. & D., May 15, p. 493). Ministry officials were asked whether the Minister's statement that doctors should be asked not to prescribe certain drugs meant any change in policy. An assurance had been given that general practitioners would still be free to prescribe whatever they thought proper though a doctor might be required to justify persistent over-prescribing. A motion stating that it was time that a settlement was arranged in the matter of discount on drugs to dispensing doctors as they suffered a loss when supplying proprietaries was referred to the General Medical Services Committee. A motion calling for a approach to the Ministry with a view to simplifying prescriptions for trusses and elastic hosiery to give reasonable latitude to the fitter was lost. A motion that high-protein preparations such as Casilan should be regarded as food was carried. A motion instructing the G.M.S. Committee to re-examine the problem of the use of form EC10A in an effort to find a method whereby pharmacists would not lose financially by the institution of that type of prescription was accepted. A motion calling for the abolition of the collection of the shilling levy by dispensing doctors on the ground that it was time-



**HOSPITAL PHARMACISTS ALL:** Coming from various parts of the country, they made up a party that visited the works of Evans Medical Supplies, Ltd., and the Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, recently.

consuming and distasteful and undignified to professional men was lost. A suggestion that the Medical Practices Committee should urge the alteration of the regulations relating to the monthly rendering of shillings by dispensing doctors paid on the Drug Tariff so as to align them with the regulations applied to chemists was accepted.

## RHEUMATISM

### National campaign launched

RHEUMATISM was not taken seriously in its early stages by sufferers, doctors, or employers, said SIR HUGH GRIFFITHS (consulting surgeon to the Ministry of Supply) in a speech read on his behalf at a luncheon given in London by the British Rheumatic Association recently to launch a national campaign to combat rheumatism. "A touch of the screws" was a matter for jest, although it sounded the knell of impending disaster. Medical treatment started too late. Rheumatism covered a variety of diseases, and the difficulties of diagnosis were varied and intricate. They were often incapable of solution without extensive laboratory and x-ray investigations.

## LOCAL NEWS

### Second Raid in Five Weeks

SMASH-and-grab raiders broke the window of Budden & Co., Ltd.'s pharmacy in Lime Street, Liverpool, recently, and stole about £90 worth of cameras, electric shavers and toilet articles. The same window of the shop was smashed only five weeks previously when a camera was stolen.

### Fined for Excessive Prescribing

THE benefits committee of Lancashire Executive Council at a recent meeting recommended that a £200 fine should be imposed on a doctor who was found to have prescribed excessively. The Lancashire Medical Committee was of the opinion that the doctor "placed undue reliance on the advertisements of many proprietary preparations."

### Too Many Chemists

A CHEMIST in the Beaver Lane, Ashford, Kent, area, has protested to Ashford Council against the opening of another chemist's shop in the area. He pointed out that there were already two shops there and in his view the opening of another in a block of shops recently built would be unnecessary and result in poor trade for all three. The Council has stated that the list of trades (which included a chemist) can be varied according to the applications received.

### Caution Urged in Using Antibiotics

ANTIBIOTIC drugs such as penicillin, streptomycin, chloramphenicol and aureomycin must be used only with discrimination, Dr. C. B. S. Fuller said in his presidential address to the Southern Branch of the British Medical Association at Winchester on June 5. "Some people appear to think they are not being properly treated unless they are given antibiotics for every minor ailment," he said. "With the prolonged

and repeated use of antibiotics, much of the normal and protective flora of the body may be killed and resistant organisms thus allowed to flourish, causing serious illness or death."

### Dangerous Insecticides on Fruit

THE possible ill-effects of powerful insecticides used for spraying fruit were mentioned by the president of the National Institute of Medical Herbalists in his address at the Institute's annual conference in Harrogate on June 7. He cited the case of a person who was taken ill after eating an apple having an accumulation of arsenical compound around the stalk. He commented on the use of chemical agents in food for human beings and asserted that men "claiming to be scientific" were producing agents that were likely to gravely endanger the public when used in connection with some foods.

### Weed-killer Damage to Verges

TWO Gloucestershire villages which were entered in the Bledisloe cup competition for the cleanest and most tidy village in Gloucestershire, have had grass verges in their parishes spoilt by the spraying of selective weed-killer by the county highways department. One village, Slimbridge, is so badly affected that it has withdrawn from the competition. A local secretary of the Council for the Preservation of Rural England has said that the highways department recently sprayed about fifty miles of roads in the Cheltenham-Cirencester area. The department had been advised by the Ministry of Agriculture to proceed cautiously until a

subcommittee set up for the purpose had investigated the long-term effects of selective weed-killing.

### Remuneration Withheld

LEICESTERSHIRE and Rutland Executive Council recently approved a recommendation of the Pharmaceutical Service Committee that the sum of £25 should be withheld from the remuneration of a local chemist. According to the Council, the analysis of a test prescription for a gargle showed that the chemist had, in error, dispensed a gargle of a somewhat similar title and formula. The chemist could not explain the error and said he had not been called upon to dispense the particular gargle previously. The gargle he had dispensed was the one usually prescribed in his district. The Committee considered there had been marked negligence on the chemist's part and drew attention to two previous reports on his dispensing.



Mr. J. W. R. Richardson receives from Mr. J. Slattey the cheque and wallet presented to him by fellow members of the Rochdale Branch of the Pharmaceutical Society (see *C. & D.*, May 22, p. 520).

## SCOTTISH ANNUAL MEETING

### Executive election results declared

AT the annual meeting of members of the Pharmaceutical Society resident in Scotland and the Branch Representatives' meeting held jointly in Edinburgh on June 9, the result of the Scottish Executive election was announced. Nine candidates stood. The following were elected:

PARK, W. A., Aberdeen	505
THOMAS, H. T., Kelso	486
CARMICHAEL, W. C., Glasgow	435
SIMPSON, J., Banchory	415
ANDERSON, J. D. C., Aberdeen	399
GROSSETT, J. B., Edinburgh	360
Of 2,930 voting papers issued, 792 were returned, seven were informal. Six voting papers were received too late to be included in the election.	

In his report to the annual meeting THE CHAIRMAN (Mr. S. Hughan) said that, from the point of view of the Scottish Department, the outstanding event of the past year had been the higher status accorded to the Department by the Supplemental Royal Charter granted to the Society on December 31, 1953. Up to that time the existence of the Scottish Department depended on a resolution of the Council of November 1886, which could have been rescinded at any meeting of Council. By the Supplemental Charter the Scottish Department was established as an integral part of the Society and no change in its status could be

made without another Royal Charter. It was encouraging to see so many younger members present at the four evening scientific meetings during the winter session and he specially thanked the students from the Heriot-Watt College for supporting the meetings so faithfully. He mentioned that since the annual report was published two prominent pharmacists, Messrs. Charles Coutts (*C. & D.*, June 5, p. 570), Aberdeen, and A. E. Kelly (*C. & D.*, May 29, p. 548), Edinburgh, had died.

A discussion on "The Minimum Standards for a Retail Pharmacy" followed. It was introduced by Messrs. W. T. Elder, Aberdeen (a member of the Society's Council), and W. C. D. Bain, Aberdeen, W. Spence Culbert, Airdrie, and J. Simpson, Banchory (members of the Executive).

A meeting of the Scottish Executive was held earlier in the day. It was reported that three candidates had entered for the D.B.A. examination held in Edinburgh on April 21 and 22, of whom two had been successful. By arrangement with West Lothian Chemists' Association, an address had been given in Bathgate by Dr. G. H. Macmorran on "Pharmacy as a Career." It was reported that, since the previous meeting, three students had been registered in Scotland, making a total of ten for 1954 to date.

## NEWS IN BRIEF

**Food Ministry Appointment.**—The Minister of Food has appointed Mr. W. J. B. Hopkinson to be his principal private secretary with effect from June 14 in succession to Mr. H. Pitchforth.

**Visit to Power Station.**—The summer outing of the South Shields Pharmacists' Association took the form of a conducted tour of the British Electricity Authority's power station at Dunston, Gateshead, co. Durham, on June 9.

**Scientific Advisory Council.**—The Lord President of the Council has appointed Sir Hugh Beaver (managing director, Arthur Guinness, Son & Co., Ltd.) to be chairman of the Advisory Council for Scientific and Industrial Research in succession to Professor Sir Ian Heilbron, F.R.S., who is retiring on September 30.

**British Pharmaceutical Conference.**—Intending visitors to the Oxford meeting of the British Pharmaceutical Conference in September are advised that applications for tickets for the visit to the Shakespeare Memorial theatre at Stratford-on-Avon should be made before June 30 to the local secretary, Mr. T. Roy Hardy, 39 Cavendish Road, Oxford.

**Women Pharmacists' Association.**—The following appointments are notified by the National Association of Women Pharmacists:—*Women's Employment Federation Representative*, Mrs. J. K. Irvine; *British Federation of Business and Professional Women Representative*, Miss E. J. M. Feeney; *Employment Secretary*, Mrs. R. Quintrell, 182 Upper Richmond Road, London, S.W.15.

**Medals for Service Surgeons.**—The following medals for meritorious work in the medical field were presented at a recent meeting of the Royal College of Surgeons:—*Sir Gilbert Blane medal*, Surgeon-Commander J. L. S. Coulter, author of *R.N. Medical History of the War*. *Mitchiner medal*, Colonel H. D. Chalke, for his contribution in peace and war to the improvement of the health of the army. *Lady Cade medal*, Squadron-Leader R. R. L. Prysor, for outstanding work and demonstration that intra-arterial transfusion can be applied readily to service needs.

## SPORT

**Golf.**—LONDON CHEMISTS' GOLFING SOCIETY, Finchley golf club, London, N.W.7, on June 9. Medal competition for president's prize won by A. H. Newcombe (3), 76 net. Bogey competition for McClure Young prize won by G. H. Hankinson, 5 down. Other leading scorers:—Medal: G. H. Hankinson (15), 78 net; and R. H. Davies (10), 80 net. Bogey: A. H. Newcombe, 2 down; and R. H. Davies, 6 down.

CROYDON AND EPSOM BRANCHES, PHARMACEUTICAL SOCIETY, at Woodcote Park, Coulsdon, Surrey, on May 26, golf match. Epsom Branch won five and lost two four-ball matches. Chemists, assistants and chemists' representatives wishing to join a proposed South London Golfing Society are invited to contact Mr. R. Swindells, Cherry Orchard Road, Croydon. Telephone: Croydon 5491.

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, at Langland Bay golf club, on June 10, eighteenth annual summer golf meeting. Evans silver challenge cup won by T. J. Morgan; runner-up, D. W. Hanford.

## TOPICAL REFLECTIONS

By Xrayser

### Travelling Councillors

Seldom has any Council meeting of the Pharmaceutical Society produced so many acceptances of invitations as the meeting held on June 2 (p. 600). The new president was invited to a congress in Copenhagen fixed for this week, and is to represent the Society at the sesquicentenary celebrations of the Royal Horticultural Society on July 27. The ex-president represents the Society for the next two years on the Council of the International Pharmaceutical Federation. Mr. G. H. Hughes is to attend in August, on behalf of the Society, a residential summer school at Bangor organised by the Central Council for Health Education. (In addition, Miss Islip has been making a tour of several French hospital dispensaries.) These and similar contacts stimulate international friendship and culture, and extend scientific horizons. But a clear distinction must be drawn between them and those of another kind, exemplified by the provisional arrangement for the Council to hold its monthly meeting next October at Colwyn Bay. The difference in the cost of travelling expenses between a Council meeting in London and one at Colwyn Bay may not be very great. But the Council meets monthly, I understand, for the transaction of business; and if it acquires the habit of flitting from place to place for that purpose, the inconvenience to many Councillors will be serious, to say nothing of the risk of loss in transit of books, documents and accessories. If this kindly suggestion of Mr. Hughes's is adopted, it should be on the understanding that it will not be regarded as a precedent.

### Agreements and Allowances

Most of us can find new hints on essential matters on going through your expert's answers to business questions. The latest instalment (p. 609) shows how complicated some of these matters can be. For this reason, I urge careful attention to the third question and its answer. More than fifty years ago a case came to my notice in which one of four partners in a firm desired, because of weak health, to retire. When the deed of partnership was scrutinised, much was found to depend on the interpretation of the words "the death or retirement." The dispute narrowly escaped being taken into court; but eventually a compromise was accepted by both parties. Had no partnership deed existed, the argument might have ended, after litigation, with dissatisfaction on one or both sides. So let everything relevant be recorded in legally correct form. The next question on p. 609 refers to the new investment allowances on industrial buildings. Your questioner asks what this means "exactly." Do shop premises obtain the benefit? Does a new typewriter qualify for an allowance? The answer includes the assurance that a new typewriter would rank: the statement should be read in full.

### Joseph Black's Perseverance

One phrase in Mr. Laurence Dopson's excellent sketch of the career of Joseph Black (p. 605) may be amplified. Mr. Dopson writes: ". . . his first fundamental discoveries arose not out of 'pure' research but resulted from research undertaken . . . to find a solvent suitable for urinary calculi." Black's explanation ("Experiments upon Magnesia Alba, Quick-Lime, and other alcaline Substances," 1777) is: "I was indeed led to this examination of the absorbent earths, partly in the hope of discovering a new sort of lime and lime-water, which might possibly be a more powerful solvent of the stone than that commonly used. . . ." This idea was basically suggested by Joanna Stephens's "medicines for the stone," the formula for which was published in *The London Gazette* of June 19, 1739. Comment on this nostrum, ranging from approval to contempt, continued for many years, and has been summarised more than once in THE CHEMIST AND DRUGGIST. In his will, Black left his estate to his relatives in various fractions of 10,000 portions. Possibly a certain amount of latent heat was thereby generated.

## COMPANY NEWS

*Previous year's figures in parentheses*

H. R. NAPP, LTD.—Mr. E. J. Dowty has been appointed managing director in succession to Mr. E. A. Clifford who has resigned because of ill-health.

CROOKES LABORATORIES, LTD.—The following have been appointed to the board:—Messrs. G. R. Watson, M.B.E. (general manager); J. R. Bowden, M.P.S. (sales manager) and F. C. Bowring (a director, C. T. Bowring & Co., Ltd.).

LAPORTE INDUSTRIES, LTD.—An 11 per cent. final dividend is recommended making a total for the year ended March 31 of 16 per cent. on the ordinary capital. Group trading surplus rose to £1,037,839 (£472,649); tax, £407,786 (£212,015); profit balance, £619,241 (£300,110).

BOOTS PURE DRUG CO., LTD.—The chairman of the company (Mr. J. P. Savage) in his statement with the full accounts points out that extension of warehouses and research facilities improvements referred to in the previous year's report have been embarked upon and the company is pressing ahead with the improvement and modernisation of shops. Capital expenditure on present level is able to be met out of funds currently available in the business. Retail distribution, he says, is becoming more difficult, because of rising costs which will make it harder to maintain net profit except by concentrating on increased sales. Reduction of stocks, combined with a substantial increase in the volume of sales, has resulted in a record stock turnover in the retail shops, warehouses and factories, and that has played a part in increasing profits and strengthening cash resources. Of the National Health Service, Mr. Savage comments that the Ministry of Health would be unwise to discourage the use of new but effective remedies merely because they happen to be expensive, as is so often the case because of the heavy charges for research they have to carry. The pharmaceutical industry as a whole does not make undue profits. The overall rate of profit on the company's sales is only 6 per cent. Total wholesale business has increased by 10·9 per cent. Export sales show a decline and it was a "difficult" year for their overseas subsidiaries. For accounts, see *C. & D.*, May 22, p. 524.

### New Companies

P.C. = Private Company; R.O. = Registered Office

J. A. FEARON, LTD. (P.C.)—Capital £2,000. To acquire the business of a dispensing chemist carried on by Robert Keir, M.P.S., at 45 Elm Road, Seaforth, Liverpool. Directors: Samuel Woodyer and John A. Fearon, M.P.S.

SPEKE CHEMISTS, LTD. (P.C.)—Capital £100. To carry on the business of chemists, druggists and opticians, etc. Directors: Sydney S. Valins, M.P.S., and Moss L. Valins. R.O.: 31 Sefton Street, Litherland, Liverpool, 21.

W. G. BENNETT (CHEMISTS), LTD. (P.C.)—Capital £5,000. To carry

on the business of chemists, druggists and librarians, etc. Directors: William G. Bennett, M.P.S., and Barbara E. Bennett. R.O.: 132 Chanterlands Avenue, Hull.

WILLIAM RANKIN (CROWN CORKS), LTD. (P.C.)—Registered in Edinburgh. Capital £250,000. To acquire the business of William Rankin & Sons, and to carry on the business of manufacturers of seals for bottles, jars, etc. Directors: Cecil D. Rankin and Philip N. Rankin, 60 Carlton Place, Glasgow.

GORDON-MOORE ORGANISATION, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of and dealers in tooth-paste, cosmetics, chemicals, etc. Directors: Robert L. Pulton and Alfred R. Webb.

J. R. CANNELL (CHEMISTS), LTD. (P.C.)—Capital £500. To acquire the business of a pharmaceutical chemist, druggist and optician, carried on by A. C. Brocklehurst, M.P.S., at 41 Fore Street, Ivybridge, Devon. Directors: William S. Wilson, M.P.S., Marion K. Wilson, John R. Cannell, M.P.S., and Kathleen M. Cannell.

### BUSINESS CHANGES

COUNTY LABORATORIES, LTD., is the new title adopted by County Perfumery Co., Ltd., County Building, Honeypot Lane, Stanmore, Middlesex.

MR. B. L. GEORGE, M.P.S., has purchased the business formerly owned by Mr. A. C. Patterson, M.P.S., at The Parade, Claygate, Surrey.

ANTHONY (HORNSEY), LTD., have opened a pharmacy at 28 Veryan Court, Park Road, Hornsey, London, N.8.

### Appointments

SOLO ORCHARDS, LTD., Totteridge Lane, London, N.20, have appointed Mr. G. Bernard Thompson, F.S.M.A., their sales manager, chemists division.

ORTHO PHARMACEUTICAL, LTD., Lane End, High Wycombe, Bucks, have made the following appointments to their representative staff: Messrs. Bryan R. Gee (Eastern Counties of Scotland), Roy C. C. Brantzen (Middlesex, London N.W., E.C., W.C., and W.), Donald A. Ham (East and West Ridings of Yorkshire), Alexander M. McKie (Cheshire, Staffordshire and Shropshire), Mostyn Beynon (Wales, Monmouthshire and Herefordshire).

### C. & D. Representatives

MR. E. L. SHEARD, advertisement representative for THE CHEMIST AND DRUGGIST in Yorkshire, Derbyshire, Nottinghamshire and Lincolnshire, will also represent the paper in Lancashire and Cheshire. Mr. Sheard, whose address is 32 Wynford Rise, West Park, Leeds, 6, is taking over his additional territory on July 1.

MR. S. J. CHISHOLM, who represents the *C. & D.* in Scotland, is taking over in addition on July 1 the counties of Northumberland, Durham, Cumberland, Westmorland, and the North Riding of Yorkshire. Mr. Chisholm's address is 24 Dixon Road, Glasgow, S.2.

### LEGAL REPORTS

**Fire-raiser Sentenced.**—Charged at Norfolk assizes on June 8, with offences which included maliciously setting fire to a warehouse at the rear of the pharmacy of Mr. J. A. Gardiner, M.P.S., 3 High Street, Ely, Cambs, Anthony Alderton, a police constable, was found guilty but insane and ordered to be detained during Her Majesty's pleasure.

**Conditionally Discharged.**—When a night watchman, Sidney James Bateman, Copenhagen Street, London, N.1, pleaded guilty at Clerkenwell on June 1, of receiving, on or about May 18, in Clerkenwell Green, a carton containing sixty-eight packets of Lactalumina tablets, knowing them to have been stolen, he was discharged conditionally on payment of 40s. costs. Bateman said the tablets were given to him in a public house the previous evening by a man he knew by sight. He had told the man he suffered from gastric trouble, and the man promised to bring him some tablets. Discharging Bateman, the magistrate said: "You must have known this was crooked. Nobody can afford to give you £4 worth of stuff for nothing."

**Forged Prescriptions to Obtain Drugs.**—At Dundee, recently, Frederick Crist Lendrum, an American professor of medicine, was sent to prison for four months after admitting four charges of uttering forged prescriptions to obtain drugs for himself. The procurator fiscal said that on April 30, in a Dundee pharmacy, Lendrum handed over two prescriptions (purporting to be signed by well-known medical men in the city), one for thirty tablets of dextro-amphetamine and the other for fifteen tablets of Nembutal. The manager recalled that Lendrum had previously presented prescriptions purporting to be signed by a Manchester doctor. Lendrum admitted to the police that he had written the prescriptions himself, taking the names of doctors from telephone or medical directories. He was stated to have degrees from several American universities and to be associate professor of medicine at the University of Illinois College of Medicine.

**Penicillin Ointment Without Prescription.**—Summoned by the Pharmaceutical Society under the Penicillin Act, 1947, for selling at his chemist's shop, at 127A Queensway, Bayswater, London, W.2, penicillin ointment without a prescription from a doctor, dentist, or veterinary surgeon, Mr. Norman Harold Leaper, M.P.S., was, at the Marylebone magistrates' court on June 11, fined £3, with £5 5s. costs. Defendant pleaded guilty. The Pharmaceutical Society's solicitor said that an inspector of the Society had sent an employee into the shop for penicillin ointment. She was supplied by an unqualified lady assistant. There was no question of a prescription being handed over. Defendant told the inspector that he thought the assistant was referring to an item in a prescription already in the shop, but the prosecution held that the sale was deliberate and not a mistake.

## BIRTH

MATHIESON.—At the Cottage Hospital, Jedburgh, Roxburghs, on June 5, to Jean, wife of Francis Hay Mathieson, M.P.S., 21 Allerly Crescent, Jedburgh, a son.

## MARRIAGES

HORAN—SHEEHY.—At the Church of the Assumption, Tullamore, Offaly, recently, Liam Enda Horan, L.P.S.I., Drumnacool, Boyle, co. Roscommon, to Eithne Sheehy, High Street, Tullamore.

SIMPSON—MUNGO.—At St. Margaret's Church, Dalry, Ayrshire, on June 7, James Simpson (only son of the late Mr. James Simpson, M.P.S.), 55 Firpark Street, Motherwell, to Effie Robertson Mungo, Easterhill, Dalry.

## Silver Wedding

SLOAN—SHEARER.—At Dowanhill House, Glasgow, on June 12, 1929, William MacMaster Sloan, M.P.S., to Margaret Bain Shearer. Present address: 51 Beech Avenue, Bearsden, Glasgow.

## DEATHS

BOLTON.—Suddenly, at 113 Shandon Park, Belfast, Mrs. Florence Bolton, wife of Mr. Sydney Bolton, L.P.S.N.I., whose address in the register is 328 Upper Newtownards Road, Belfast.

BOOME.—Suddenly, while on holiday on June 12, Dr. Edward James Boome, T.D., M.B., M.R.C.P., D.P.H., Greystacks, Hillview Road, Woking. Dr. Boome was formerly principal assistant medical officer, London County Council.

CLARK.—Recently, Mr. Walter Clark, M.P.S., 18 Clifford Avenue, Ings Road, Hull. Mr. Clark qualified in 1925.

CROWE.—At Ellerslie, Salcombe, Devon, on June 12, Mr. George William Crowe, aged eighty-six years. Mr. Crowe was chairman of Croda, Ltd., Snaith, Goole, Yorks. He is survived by his widow.

GITTINS.—On May 22, Mr. George Gittins, M.P.S., 29 Main Street, Shildon, co. Durham, aged fifty.

GRATWICK.—At a nursing home on May 31 following a heart attack, Mr. Frank Gratwick (general secretary, National Chamber of Trade). A memorial service is being held at St. James' Church, Sussex Gardens, Paddington, at 11 a.m., on June 23.

HEYWORTH.—Suddenly, on June 6, Mr. William Reginald Heyworth, M.P.S., 66 Harlow Moor Drive, Harrogate, Yorks, aged forty-two. Mr. Heyworth represented Thomas Kerfoot & Co., Ltd., in the Yorkshire area.

JOHNSON.—On June 3, Mr. Alec Samuel Williams Johnson, M.P.S., Brynhill, Cyncoed, Cardiff, aged seventy-six. Mr. Johnson was chairman and managing director of Robert Drane, Ltd., chemists, Cardiff. He was a past-president of the Cardiff Pharmacists' Association, had been secre-

tary of the Cardiff Pharmaceutical Committee since 1920, and served on the Insurance Committee for twenty-five years. He was a member of the board of management and chairman of the convalescent home (which he was instrumental in establishing) of Cardiff Royal Infirmary, and was honorary pharmaceutical adviser to the Infirmary. In 1953 tributes were paid to Mr. Johnson when he retired from the bench of magistrates after twenty-one years' service. He was a past-president of Cardiff chamber of trade and the Cardiff Institute for the Blind. He was chairman of the District Commissioners of Taxes for Cardiff.

MARTIN.—On June 12, Mr. William Montagu Martin, aged eighty-seven. Mr. Martin qualified as a chemist and druggist in 1891. He was the oldest pharmacist in Plymouth.

OSTLER.—On June 2, Mr. Frederick Vincent Eugene Ostler, Lords House, Hove, Battle, Sussex, and formerly of Star Hill, Rochester, Kent, aged fifty-eight. Mr. Ostler qualified as a chemist and druggist in 1922. —

SHORT.—In Mansfield General Hospital, on May 29, Mr. Arthur Short, 25 Sheepbridge Lane, Mansfield, Notts, aged sixty-seven. Mr. Short qualified as a chemist and druggist in 1921 and, until he retired a year ago, was managing director of A. H. Bell (Mansfield), Ltd.

THRELFALL.—In the Royal Lancaster Infirmary on June 7, Mr. Edward Threlfall, M.P.S., Wyndcliff, Ardengate, Lancaster, aged forty-four. Mr. Threlfall had been for the past twenty years in business on his own in Lancaster. Born in Millom, Cumberland, he was educated at Appleby grammar school and Nottingham university. He was a member of the Vale lodge of freemasons. He is survived by his widow and two children.

TRYTHALL.—On May 26, Mr. Frederick James Trythall, M.P.S., 92 Ridgehill Avenue, Intake, Sheffield, 2, aged forty-four.

## PERSONALITIES

MR. G. E. WATSON, who has been appointed a director of Crookes Laboratories, Ltd. (see p. 616) is general manager of the company. He joined the company as an office boy in 1920 and since then can claim to have worked in each of its departments. He has been works manager and senior purchasing officer and became general manager in 1950. During the 1939-45 war, Mr. Watson rose from the ranks to be a Lieutenant-Colonel, serving in the Middle East and in Italy. MR. J. BOWDEN, M.P.S., who has also been appointed a director of the company, was apprenticed to Boots, Ltd., whom he later represented in Italy. To gain greater experience of the pharmaceutical industry he joined the Merck organisation in Darmstadt, Germany, and subsequently became the London representative of Hoffman-la-Roche. In 1945 he joined Crookes Laboratories, Ltd., as sales manager and was appointed general sales manager in 1949. Another new

director is MR. FREDERICK BOWRING (a director of C. T. Bowring & Co., Ltd.).

MRS. A. GREENWOOD, M.P.S., who has gained the double distinction



(Photo. West Lancashire Evening Gazette)

of being elected president of the national council of the National Association of Women Pharmacists and president of the Blackpool Branch of the Pharmaceutical Society, qualified in 1931 after serving her apprenticeship in Blackburn. She has been in business in Blackpool for seventeen years, and was chairman of the executive committee of the National Association of Women Pharmacists during the reorganisation period in 1953-54. She is the wife of Mr. Alfred Greenwood, M.P.S.

## BIRTHDAY HONOURS

### C.B.E. for Dr. H. Davis

DR. HAROLD DAVIS (chief pharmacist, Ministry of Health) becomes a Commander of the Order of the British Empire in the Queen's Birthday Honours list published on June 10. Mr. E. F. Hyatt, M.P.S., has been awarded the O.B.E. for "political and public service in Paddington." Mr. Hyatt is a member of London Executive Council, a member of Paddington Group Hospitals Management Committee, and chairman of the group's finance committee. He also holds the chairmanship of the house committees of three London hospitals.

Other awards include:—*Baronet:* Sir (Walter) Russell Brain (president, Royal College of Physicians of London); *Knight:* Mr. Alfred Chester Beatty (Vice-patron, Royal Cancer Hospital), Mr. Russell Claude Brock (surgeon, Guy's and Brompton Hospitals); Mr. Ian Clunies-Ross (chairman, Scientific and Industrial Research Organisation in the Commonwealth of Australia), Mr. Alexander P. Murphy (president of the Royal Australasian College of Physicians), Dr. Alexander R. Todd (professor of organic chemistry, Cambridge University); *C.M.G.:* Dr. Andrew Topping (dean of the London School of Hygiene and Tropical Medicine); *K.C.B.E.:* Mr. I. F. Armer (deputy secretary, Ministry of Health); *C.B.E.:* Messrs. G. A. Fitch (assistant secretary, Export Credits Guarantee Department) and J. L. A. Grout (senior consultant radiologist, Sheffield United Hospitals), Sir W. Arbuthnot Lane, Bart. (managing director, Kaylene (Chemicals), Ltd.), Messrs. N. L. Lloyd (chief medical officer, Ministry of Supply), K. T. Parker (keeper of the Ashmolean museum, Oxford University), I. D. Wratten (a former president, Royal Photographic Society) and Dr. C. M. Yonge (regius professor of zoology, Glasgow University).

## PHARMACEUTICALS IN BRAZIL

### Central laboratory to be formed

PRESIDENT Vargas has sanctioned a law creating a central laboratory for control of drugs and medicines. The function of which is somewhat similar to the United States Food and Drug Administration. It will analyse and examine drugs, medicinal plants, pharmaceutical preparations, antiseptics, disinfectants, biological and chemical products and any other substances of interest to the public health; promote the technical-scientific development of the Brazilian pharmaceutical industry, fixing the necessary standards; propose the cancellation of licences for pharmaceutical products if systematic analyses disclose fraud on the part of manufacturers; also the modification of formulas, shown by up-to-date scientific knowledge to be inactive or injurious to public health; pronounce technical opinions on requests, made to the National Supervisory Board of Medicines (SNFM), to licence new products; recommend alterations in the rules governing the installation of industrial laboratories, with a view to perfecting new techniques; collaborate with the commission for the revision of the Brazilian Pharmacopoeia and with federal and state laboratories.

With the exception of new preparations, awaiting licence by SNFM, and special technical conditions calling for longer periods, analysis of chemical products, drugs and medicinal plants must be made within thirty days of presentation of the samples, that of pharmaceutical and biological preparations within sixty days.

Industrial laboratories, factories and packing houses will pay (towards maintenance of the organisation) a charge ranging from £6 to £60 annually, according to their invested capital. Representatives of foreign laboratories will pay a special rate, varying from £10 to £100, according to the number of products for which they are representatives. The scale of payments for services rendered by the Central Laboratory will be fixed in the regulations. Incentives are provided in the new law for technical discoveries by research workers in the Laboratory.

President Vargas has also modified Articles 55 and 70 of the Regulations of the Pharmaceutical Industry. Licensed industrial laboratories may only manufacture their own proprietary preparations and those of their technical associates. Formulas belonging to third parties may be exploited under contract with their owners if duly registered with SNFM. In exceptional cases, at the discretion of the National Health Service, the manufacture of pharmaceutical specialities, not the property of the laboratory, will be permitted under contract with the owner of the formula, if special technical installations are required for their manufacture.

In order to licence foreign pharmaceutical specialities, and those owned by foreigners, official proof is required that the products have been licensed, or in use, for more than twelve consecutive months in the country of origin; also, that the professional who

signed the report is legally qualified in the said country. SNFM may, at its discretion, cancel the licence of a foreign speciality if its manufacture has been suspended in the country of origin.

### Menthol and Peppermint

A meeting of exporters was called recently to consider measures for boosting exports of Brazilian products,

## DEVELOPMENTS IN THE UNITED STATES

### Research work

THE Army Medical Centre in Washington is investigating the digestive system of the African greater honeyguide to determine what makes it possible for the bird to digest wax. The bird is one of two known creatures that can do so, the other being the "waxworm," the larva of a moth, in which the wax is broken down to fatty acids by intestinal bacteria. The investigation has as its object to aid the treatment of tuberculosis, since the wax coating of the tubercle bacillus makes the germ immune to most chemical treatments.

Dr. T. S. Ma (professor of chemistry at New York University) has identified citric acid as the anti-tuberculosis agent in *Schizandra chinensis*, an Oriental herb employed as a remedy against dysentery, colds, coughs and chest diseases. Citric acid has been found to be about one-twentieth as active against tuberculosis as isoniazid. Malic acid was also found to have antibacterial activity.

Blood transfusions and antibiotics are the only measures of proven use-

including menthol and *arvensis* oil. Exports of the latter have dropped progressively from 257 tons in 1951 to 123 in 1953 and both threaten to disappear from Brazil's foreign trade returns, as f.o.b. prices exceed international parities. Production of menthol crystals amounted to 75 tons in 1953 and stocks now on hand total 110 tons. The meeting suggested that these products will only be saleable abroad if the present bonus of 10 cruzeiros per dollar (27·90 per £), paid to exporters, is increased.

## DEVELOPMENTS IN THE UNITED STATES

### on tuberculosis

fulness for treating radiation injuries resulting from atomic or hydrogen bomb blasts according to Dr. Thomas Haley of the University of California Atomic Energy Project. Although toluidine blue had originally shown promise, its toxic side-effects made it a questionable therapeutic agent. Dr. Haley has said that there may be a factor in the spleen concerned with survival but that more research would be necessary to determine its place in the treatment of radiation injury. Plasma volume extenders and ACTH have shown promise in radiation injury.

### Polymyxin in Brewing Industry

Polymyxin B is being used as a bactericide against bacteria that contaminate brewers' yeast and interfere with beer production. The antibiotic is eliminated by filtration when the brew is clarified. No untoward effects on yeast cultures have been observed in seventy generations of continuous protection with polymyxin. 0·6 gm. protects yeast used for a 100 barrel fermenter.

## VITAMIN

### A survey by the Birmingham analyst

IN his report for the first quarter of 1954 the Birmingham analyst gives the results of a survey of samples of five British Pharmacopoeia vitamin tablets purchased in retail pharmacies. The preparations chosen were tablets of aneurine hydrochloride, riboflavin, nicotinic acid, nicotinamide and ascorbic acid respectively. The purchasers did not ask for any particular strength, as one object of the inquiry was to discover whether the strength indicated in the B.P. when none is specified would be supplied. Twenty-five samples of each were taken. Analysis revealed that there had been no significant deterioration of the tablets since manufacture. The only complaints that could be levelled against samples as being to the prejudice of the purchaser concerned a compound vitamin B tablet labelled "tablets of vitamin B<sub>1</sub>"; nicotinic acid tablets labelled as nicotinamide tablets; 30-mgm. vitamin-C tablets labelled as 25-mgm.; and a riboflavin tablet 33½ per cent. deficient (a deficiency attributed to a fault in manufacture, as no degradation products were detected).

Only three of the samples of ascorbic acid were of 25-mgm. tablets as required by the British Pharmacopoeia. Seventeen were of 50-mgm. tablets labelled as such. Two were described

merely as "tablets of vitamin C," and one was not labelled with any name but with a stick-on label "it is dangerous to exceed the stated dose." In twenty-one cases 3-mgm. tablets of riboflavin, labelled as such, were supplied instead of 1-mgm. tablets. In only seventy-seven cases out of the 125 were the tablets demanded by the B.P. supplied. Of the remaining forty-eight samples forty-five were either of riboflavin or ascorbic acid. It appeared to be the practice to supply 3-mgm. and 50-mgm. tablets respectively instead of the official strengths.

Ninety-four samples were supplied from bulk in non-airtight cardboard packets or boxes. The analyst's report points out that, though the B.P. gives no instructions on packaging for issue, it prescribes well-closed or glass containers for four of the tablets under consideration. In the majority of cases of supply from broken bulk the charge made was the same as that for the pre-packed article. If, asks the analyst, it was considered an advantage to the customer to receive the tablets in sealed containers as a precaution against possible deterioration, should not pharmaceutical considerations outweigh the "attraction of the somewhat larger profit to be gained" by supply from bulk?

## TRADE NOTES

**Discontinued.**—C. L. Bencard, Ltd., Minerva Road, London, N.W.10, are discontinuing the issue of E.L.A. (emulsion lactobacillus acidophilus, Bencard) as soon as present stocks are exhausted (estimated to be at the end of June).

**Trade Telephone Numbers.**—J. N. Whitelaw, Ltd., paper merchants and printers, Palestine Grove, Merton, London, S.W.19, have just completed their new telephone directory, giving in alphabetical thumb-index arrangement the numbers of over 400 manufacturers and wholesalers in the drug trade. About 1,000 copies are available for distribution to chemists sending threepence each to cover postage.

**In London on Business.**—Mr. D. J. Kinlay, M.P.S., a director of South African Druggists, Ltd., wholesale chemists, Johannesburg, and managing director of Heynes Mathew, Ltd., manufacturing and wholesale chemists, Capetown, is paying a short business visit to London, June 28 to about July 15. Mr. Kinlay can be contacted at Davis & Soper, Ltd., 52 St. Mary Axe, London, E.C.3.

**Orders in Strict Rotation.**—Hendersen Bros. & Co., Ltd., makers of "sylvan beauty" brushware (see *C. & D.*, June 12, p. 601) point out that the initial production of those new products has been fully taken up, but that orders are being dealt with in strict rotation. They should be sent to the company at Pallion Estate, Sunderland, and not to the now obsolete London address previously given.

**Oral Penicillin Tablets.**—Boots Pure Drug Co., Ltd., Station Street, Nottingham, announce that Tabillin (penicillin oral) tablets are now available in a "foil strip" pack at the same price as the previous bottle packs, which are discontinued. The new presentation of oral penicillin tablets confers maximum protection on each individual tablet, both during storage and subsequently when dispensed and in the patient's hands. Tabillin is available in packs of ten and 100 tablets in strengths of 100,000, 200,000, 400,000 and 500,000 international units per tablet.

### Holiday Closings

**CIBA LABORATORIES, LTD.**, Horsham, Sussex, are closing their offices and laboratory on June 23 on the occasion of the annual staff outing of the company.

The works of CUXSON, GERRARD & CO., LTD., Fountain Lane, Oldbury, Birmingham, are closing for the annual holiday from July 24 until August 8, both dates inclusive. During that time only a skeleton staff will be on duty to deal with urgent orders and inquiries.

The works of HOWARDS OF ILFORD, LTD., Ilford, are closing for the annual holiday from Saturday, July 17, to Monday, August 2.

**WHIFFEN & SONS, LTD.**, Marylebone Road, London, N.W.1, are closing their Fulham factory on Saturday, July 3, and reopening on Monday, July 19. A skeleton staff is being retained to deal with urgent orders between those dates, but customers are requested to make provision beforehand for their requirements where possible.

## NEW PRODUCTS AND PACKS



**Vacuum Flask in New Size.**—L. Rees & Co., Ltd., 31 Wilson Street, London, E.C.2, are marketing their Isovac Mayfair vacuum jug in a new size but pattern and colour as in the No. 991, which has been on the market for quite a time. The new jug is of reputed 2-pint size (actual 36-fl. oz.). The jug is individually boxed for sale.

**Clipover Sunglasses.**—Alfred Franks & Bartlett Co., Ltd., 226 Gray's Inn Road, London, W.C.1, draw attention to their Protector sunglasses with new clipover feature that makes them easily fitted to all types of spectacle frames. The sunglasses are made in three sizes with Crookes lenses, and have plastic frames in crystal rose or shell shades.

**Stable Penicillin Tablet.**—Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, announce that, under the name Permapen tablets, they are issuing a new stable penicillin tablet containing 200,000 units of tasteless benzathine penicillin. The scored tablets are strip-packed in carton of eighteen, and are understood to retain their potency for at least three years.

**Liquid Shampoo for Fair Hair.**—Scott & Bowne, Ltd., 50 Upper Brook Street, London, W.1, sole selling agents

for Sta-blond products, are marketing a new single-sachet liquid specially for fair-haired women. The new sachets are packed in a display outer supplied with every 2-doz. order, which also qualifies during June for an introductory bonus in return for window display on orders supplied direct.

**Sun-proof Cream.**—Westbrook Lanolin Co., 109 Duckworth Lane, Bradford, have perfected a new "sun-proof" cream, delicately tinted and perfumed. The cream is normally effective with one application. It is non-greasy, waterproof, and affords a face-powder base for any type of skin. Each cartoned tube is in the company's "wallpaper" colour scheme of grey and brown stripes.

**Biological Assay of Vitamins.**—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, announce the introduction of acid hydrolysed casein (for microbiological assay), superseding hydrolysed casein (vitamin free), which has been discontinued. Acid hydrolysed casein (for microbiological assay) is an essential ingredient in the special bacteriological media now being used for the biological assay of small amounts of vitamins present in various food-stuffs and tissue extracts. By that method six vitamins (aneurine, riboflavin, nicotinic acid, folic acid, pantothenic acid and cyanocobalamin) can be estimated. The product contains only traces of those vitamins, so that the results of estimations are not materially affected.



### A NEW DUBLIN SHOWROOM

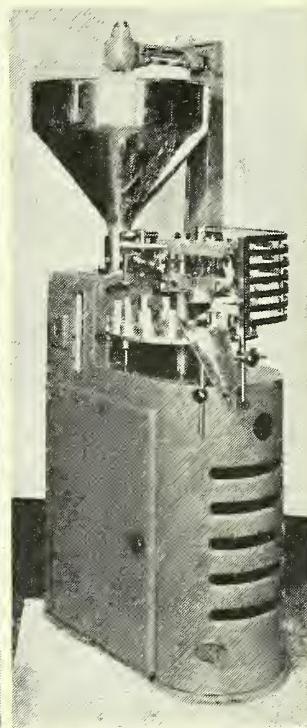
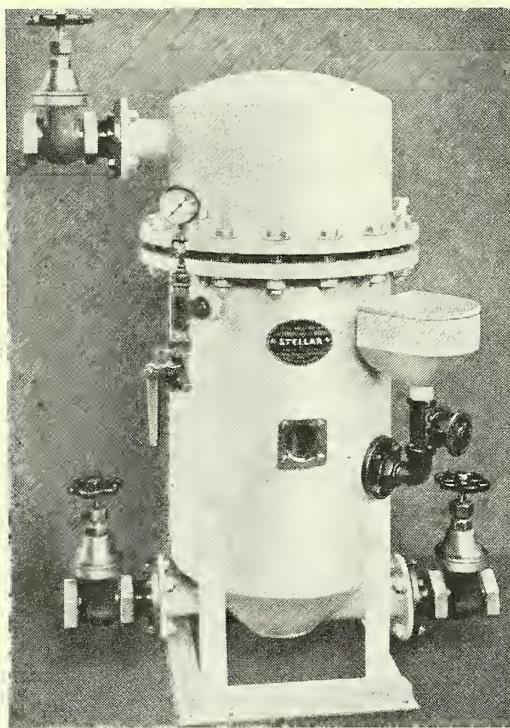
**BOILEAU & BOYD, LTD.**, Dublin, have recently opened a showroom where their range of packed lines and sundries will be shown side by side with those of the manufacturers for whom they hold agencies. There is a centrepiece of drug raw materials, with tabs to a world map in relief showing the countries of origin. Another feature is an array of pharmacy jars dating back to the days of the old apothecaries. On a panel are listed

the many ethical and other manufacturing firms for which Messrs. Boileau & Boyd are agents. They include Organon Laboratories, Ltd., Sharp & Dohme, Ltd., Ward, Blenkinsop & Co., Ltd.; Smith, Kendon, Ltd.; Fish Optical Co., Ltd.; Raywarp Textiles, Ltd.; Sorex (London), Ltd.; Seal Show Cases; and Camden Chemical Co., Ltd. The displays in the showroom are being changed in accordance with seasonal demands.

## MACHINERY AND PLANT

**Fine Filtration of Chemicals.**—The Stellar filter, made by the Paterson Engineering Co., Ltd., London, and illustrated below, has been specially developed for chemical and laboratory use where a very fine fil-

earlier filling machines. Another machine available from the company is a redesigned model for vial filling, rubber stoppering, capping and sealing. The machine accommodates all standard sizes of vials, and meets the close



tration is required. It is widely adopted in the production of fine chemicals, insulin, liver and similar animal extracts and other injection solutions, all of which must obviously be completely free from any suspended matter. The filter consists essentially of a cylindrical shell and outlet manifold constructed to take patented wire-wound elements or candles which provide the foundation for a bed of filtering powder (kieselguhr or an admixture of kieselguhr with other materials). Filter shells for general use with aqueous liquids are made of mild steel and lined when necessary with a hard plastic enamel. For food-stuffs and corrosive conditions stainless steel is used.

**Automatic Weighing of Coalescent Substances.**—Accurate high-speed weighing of substances such as milk powders, which tend to coalesce, is a problem that finds a solution in a machine developed by Autopack, Ltd., Caroline Street, Birmingham. The vibrator-feed weighing machine (illustrated above, right) has two units linked to work simultaneously. The material to be weighed is fed by electrically operated and controlled vibrators from the main hopper into the scalepan of the automatic weighing machine. When the steady feed of the product from the vibrator is arrested, and the required quantity is reached, the fill is discharged. A much steeper angle of discharge is provided by the twin funnels than is given by

tolerance requirements of vial manufacturers. It is fully adjustable for size of cap and diameter of stopper. Complete adjustment to accommodate a different size is effected in less than ten minutes. Almost any type of rubber plug is handled by the plugging unit, which incorporates many patented features. All parts coming into contact with the material are readily detachable for cleaning and sterilising. Cap spinning, crimping or screw-capping units can be fitted if required. On a single unit, output speeds of 40 to 50 per minute are possible. In a twin unit, with single inlet and outlet feeds in line, speeds of 90 to 100 per minute may be obtained. The machine was illustrated in the April 10 issue of this paper, unfortunately in association with a paragraph on the same company's automatic screw-capping machine.

**Compression-coated Tableting.**—The DryCota combined tablet-making and compression-coating machine, issued by Manesty Machines, Ltd., Speke, Liverpool, 19, enables materials affected by moisture to be coated; permits the coating to be applied a fraction of a second after the tablet centre is made; does away with the polishing process; and enables tablets to be engraved or embossed. The machine embodies the main characteristics of the Manesty D3A rotary tablet machine, but is fitted with two 16-die Meehanite turrets. The first turret carries sixteen pairs of punches and dies

to produce the tablet centres, the material fed to this turret being from a large-capacity hopper. The centre is picked up at the point of ejection by the transfer unit and passed to the second turret, where it is located centrally on top of the first fill of the coating material. The centre is held in synchronisation with the die of the second turret, thus ensuring perfect centring. The second turret also carries sixteen pairs of punches and dies, which produce the coated tablet.

**Carboy Filter.**—The new Safe-way carboy filter manufactured by Powell & Co., Drum Master Works, Burry Port, Carmarthenshire, has a sliding clamp that rests firmly upon the top of the glass bottle (from which it is insulated by heavy-gauge rubber tubing). The clamp does not touch the iron skip or hamper. There is thus no metal ring round the neck of the bottle to corrode or cause fracture of



the glass neck during cold weather. There is also uninterrupted access to the neck of the bottle when pouring (danger of spilling reduced). The device is made from tubular steel and the sliding clamp has powerful jaws that do not damage the handle. It is finished with two coats of anti-corrosive paint.

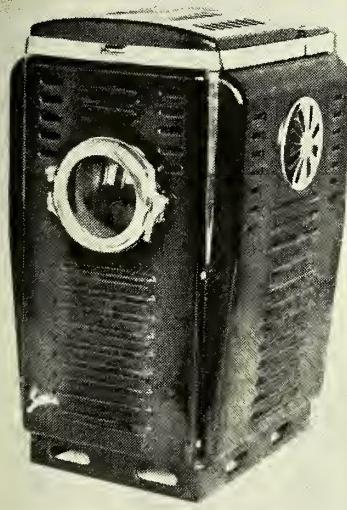
**Light-alloy Storage Drums.**—E. C. Poyer & Co., Ltd., Great Bridge, Tipton, Staffs, have introduced a new range of 45- and 40-gallon light-alloy storage drums at a considerably lower price than previously. The drums are fabricated from sheets of 14- or 16-gauge magnesium-aluminium alloy, and automatically welded. The weight is approximately one-third that of a comparable steel drum. The drums are corrosion-resistant and are unaffected by chemicals that attack conventional steel drums. For each capacity a heavy duty, standard or export version is available, with any aperture or bung arrangements required.

**Hand-operated Lifting Truck.** — Salisbury Precision Engineering, Ltd., 1 Buckingham Palace Mansions, London, S.W.1, have introduced, in their



Sherpa "handdraulic" truck, a hand-operated lifting machine for moving goods from one part of a works to another. The truck is of welded tube construction. The platform, which runs freely on rollers, is supported by a roller chain. "Finger-tip" control enables the platform to be raised or lowered at a suitable speed whether loaded or empty. The overall height is 50 in. The maximum lift is 3 ft.

**Diesel-oil Heaters.** — D. E. Stuttard, Westfield Mill, Mytholmroyd, Halifax, Yorks, offer boilers, space heaters,



boiler conversion units and cooking ranges in vitreous enamel finish with 75 per cent. to 82 per cent. efficiencies, safe and clean in use ("no smoke, no smell and no soot"). The heaters require no attention and no cleaning out, and are silent in operation. The fuel used is light fuel oil (diesel), which is cheaper than paraffin. The units are claimed to be quite revolutionary to this country. They can be manually or thermostatically controlled.

## PHOTOGRAPHIC DEPARTMENT

**Binoculars.** — J. A. Davis & Co., 94 Denmark Hill, London, S.E.5, are importers and stockists of a wide range of prismatic binoculars, which are offered to chemists on sale or return terms.

**Cameras for All Users.** — Within the pages of the 1954-55 Ross Ensign camera catalogue are cameras to suit every class of trade from the snapshotter to the enthusiast. Ross Ensign, Ltd., London, E.17, claim that no comparable range is available from any other British photographic manufacturer and that no foreign product carries such advantages in after-sales service.

**X-ray Processing Unit.** — The Kodak x-ray processing unit, model 56, is claimed to be the most up-to-date 5-gall. model on the market. It comprises developing tank, rinse compartment, two fixing tanks and wash compartment. Films can be processed at a rate of sixty per hour. Multiples of the unit are suitable for larger x-ray departments.

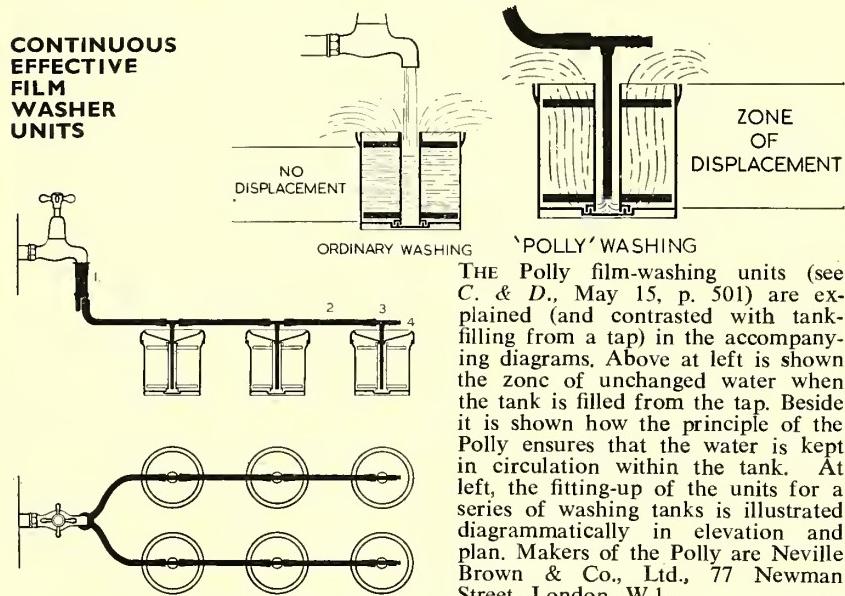
**An Attractive 2½-in. Camera.** — The Paxina 29 camera takes twelve 2½ x 2½ in. pictures on size 20 roll film, has an f/2·9 anastigmatic lens, and flash-synchronised Pronto shutter with speeds of 1/25, 1/50, 1/100 and 1/200 second and B. It has a modern telescopic-lens extension, optical view-finder, and rangefinder shoe. The distributors are Neville Brown & Co., Ltd., 77 Newman Street, London, W.I.

**Two New Timers.** — The Johnson enlarger time-switch issued by JOHNSONS OF HENDON, LTD., Hendon, London, N.W.4, is made by Smiths English Clocks, Ltd. On test it was found simple to connect to mains and enlarger if the diagram on the inside of the baseplate is carefully followed. The switch permits timed exposures of from 1 second to 5 minutes. Setting the side switch to "on" switches on the enlarger light so that the image may be focused; when that is done the switch is set to "off." To start the timed exposure it is necessary only to depress

the centre top button on the time switch. That turns on the enlarger light and starts the mechanism, which stops when the hands reach "zero," and the enlarger light is then switched off automatically. The time switch does not have to be wound, because the movement of the hands provides sufficient energy to operate the clockwork mechanism. Series of exposures may be made without resetting. The weight is  $\frac{1}{2}$  lb., and the base measures 3½ x 4½ in. — The Stag range of interval timers, marketed by K. G. CORFIELD, LTD., Merridale Works, Merridale Street, Wolverhampton, is in two groups, the BS 512 timing from 1/5 to 6 seconds, and from 2 to 60 seconds. The second group, BS 522, carries on where the first leaves off, giving times of from 2 to 60 seconds, and from 12 seconds to 6 minutes. The timers may be obtained complete in case for standing on the enlarger bench, or in a panel type for built-in flush mounting. The timers are heavy enough to switch any equipment up to 1,000 watts, and may therefore be found of use for purposes other than the automatic exposing of enlargements. In testing, the model BS 522/IV was used: it is a timer in case for exposures from 2 seconds to 6 minutes. A set exposure may be repeated as often as desired without resetting.

**Cavalcade of 16-mm. Film.** — The G.B. Film Library (G.B. Equipments, Ltd.), Aintree Road, Perivale, Middlesex, are presenting, at the National Film Theatre, South Bank, London, a 21st anniversary cavalcade of 16-mm. film. The programme comprises sixteen programmes, commencing June 14, representing the finest achievements of 16-mm. film in recent years. All aspects will be covered—entertainment, education and industry—each to be represented by films acknowledged the finest of their class. Eminent speakers will talk about the need of film in industry. Stars of the screen will be there, too.

CONTINUOUS  
EFFECTIVE  
FILM  
WASHER  
UNITS



THE Polly film-washing units (see C. & D., May 15, p. 501) are explained (and contrasted with tank-filling from a tap) in the accompanying diagrams. Above at left is shown the zone of unchanged water when the tank is filled from the tap. Beside it is shown how the principle of the Polly ensures that the water is kept in circulation within the tank. At left, the fitting-up of the units for a series of washing tanks is illustrated diagrammatically in elevation and plan. Makers of the Polly are Neville Brown & Co., Ltd., 77 Newman Street, London, W.I.

# PHARMACEUTICAL SOCIETY OF IRELAND

## Monthly Meeting of Council

A MEETING of the Council of the Pharmaceutical Society of Ireland was held in Dublin on June 8, Mr. M. Costello (president) in the chair. Other members of Council present were Messrs. P. F. McGrath (vice-president), H. P. Corrigan (treasurer), P. Brooke-Kelly, J. Gleeson, G. C. O'Neill, T. B. O'Sullivan, D. J. Kennelly, A. A. Toher, M. Power, T. C. Scott and C. J. Cremin. Mr. J. G. Coleman (registrar) was in attendance. Apologies for inability to attend were received from Senator F. Loughman, Messrs. P. A. Brady, C. D. O'Shea, R. Daly, J. P. Kissane and P. Fullam.

### *Local Pharmaceutical Representation*

Arising out of the minutes of the May meeting (*C. & D.*, May 22, p. 527), at which members were urged to secure pharmaceutical representation on the Local Health Councils, MR. TOHER mentioned that he had seen the Sligo county manager and had been informed that the two vacancies on the Sligo County Health Council had been filled. If application had been received earlier, the manager had informed him, a pharmacist would have been appointed to one of the vacancies. Mr. Toher asked that an official application should be made from the Society for the first vacancy that might arise on that Council. MR. MCGRATH told the Council that steps were being taken to increase the numbers on the Health Councils in boroughs like Dublin, Cork, Limerick and Waterford, and that pharmacy was likely to get representation in each borough if immediate action were taken. MR. O'NEILL commented that there was no better work they could do outside the Council than to get on to those Health Councils. MR. MCGRATH said county managers felt it was very important to have a chemist on local Health Councils in view of the heavy bills for drugs. THE PRESIDENT stressed the importance of personal contacts with county managers and paid tribute to Mr. Toher's action in Sligo. That matter should be mentioned by Council members to all pharmacists from the provinces attending the official opening of the College on June 14.

A letter was read from the Department of Health requesting the Society to nominate an official representative on an advisory committee to be constituted under the Therapeutic Substances Act, 1932, from August 1. On the proposition of THE PRESIDENT, the Council unanimously decided to re-nominate Mr. Richard F. Timoney (dean of the College of Pharmacy) as the Society's representative on the committee.

The reports of the House, Schools, and Law Committees were submitted and approved. Arising out of the Law Committee report the Council considered the question of whether the British Pharmaceutical Codex should be made official in the Republic. When MR. TOHER suggested that a committee should be set up to consider the question, THE PRESIDENT said the matter would have to be carefully gone into. THE REGISTRAR mentioned that the Codex was officially recognised in Great Britain and Northern Ireland. Members of Council were asked to examine the B.P.C. closely before the next Council meeting when the matter could be further considered.

THE PRESIDENT moved: "That the Council shall give consideration to the appointment of a full-time inspector with pharmaceutical training." MR. BROOKE-KELLY pointed out that such an appointment would entail much expense and should be considered deeply before any decision was reached. A committee could go into the question. THE PRESIDENT said he had really put down the motion to ascertain how the members felt about such an appointment. There was not only the expense involved but the difficulty of finding the right type of person. MR. SCOTT favoured leaving the matter over to the autumn. MR. O'NEILL said he was particularly concerned with the type of work to be

done. The idea was that such a man would go round and visit members and licentiates in an advisory and helpful capacity. MR. TOHER agreed. At the previous Council meeting, he said, there was a great burst of enthusiasm about appointing such a person to act in an advisory way and to put people on the right track. It was said that a great deal of good would come out of it. MR. KENNELLY said he approved of the idea if they did not use the term "inspector," which suggested someone trying to catch people out. MR. CREMIN: If we found the right person he could do a lot of good. MR. MCGRATH said such an official should be appointed mainly for pharmacists' protection. A man with the right qualities could be a great help. MR. O'NEILL felt that such an official could even help the Society by getting new members. MR. GLEESON, urging caution, said such an appointment would cost quite an amount and they should perhaps wait until they saw how the finances stood at the end of the year. THE PRESIDENT said he was in agreement with the views expressed, and Mr. Kennelly's concern regarding the use of the word "inspector," but they had to keep in mind that besides being a liaison officer between the Society and its members, the official would have definite responsibilities to ensure that the poisons laws were observed by people outside pharmacy. Reports received recently from members in different places indicated how necessary it was to have a thorough check kept upon non-pharmaceutical people who were selling poisonous preparations throughout the country. The Council decided to take no action in the matter until the views of members were ascertained.

### *Out-patients' Medicines*

MR. MCGRATH reported on National Health Council matters and suggested that there should be discussions between members of the medical profession and Council representatives on the best means of dealing with the abuse of the issue of medicines to patients attending out-patients' departments of voluntary hospitals who were in a position to purchase such medicines at their local pharmacy. The Council were in entire agreement with Mr. McGrath's suggestion and decided to take action along the lines indicated.

THE PRESIDENT, reporting on a recent meeting of the joint committee of Council and Irish Drug Association representatives in connection with the Health Act, outlined what had been done in drawing up a scale of prices, for submission to the Department of Health, of various lines to be supplied under the mother and child welfare part of the Act.

At question time, MR. POWER raised the issue of the use of the term "Eire" in the pharmaceutical Press when referring to the State. That was a practice, he said, to which exception must be taken unless the entire text in which the word "Eire" was used was in Irish. The name of the State in English was "Ireland," and that should be used on all occasions. The Society was the "Pharmaceutical Society of Ireland" and that should be borne in mind at all times. THE PRESIDENT promised that representations would be made on the matter.

Mrs. Mary Grace Hogan (née O'Toole), M.P.S.I., wrote submitting marriage certificate and requesting change of name in the Register. The application was granted. Applications from Drs. Adrian Moore Van Bergen and Dinsaw Ratanji Chinoy submitting L.A.H. certificates for registration as pharmaceutical chemists were granted. THE REGISTRAR reported on the deaths of Sylvester Condron, L.P.S.I., Dublin (see *C. & D.*, June 5, p. 570), and William J. O'Sullivan, L.P.S.I., Limerick.

The licence certificates of the following pharmaceutical chemists were signed and sealed: Messrs. William Boles,

Michael J. Cahill, Stephen J. Carden, John P. Campbell, Edward William P. Gannon, Cornelius A. Kiely, Owen D. Lynch, Patrick F. Larkin, Dominick F. Molloy, John B. Nolan, Joseph Swanton, John Underwood, Misses Elizabeth M. Bannon, Bridget M. Gilmartin, Finola M. Keegan, Helen J. McCarthy, Nora M. McCarthy, Maire MacGeough and Bridget I. Moriarty. The licence certificates of the following dispensing chemists and druggists were signed and sealed: Messrs. Thomas Gillan, Richard James Hoskin and James A. Kennedy.

Messrs. Patrick V. Coleman, James C. Power and Miss Kathleen T. Fox were elected members of the Society. The

following were nominated for membership: Dr. Adrian Van Bergen, Memorial Hospital, Darlington, co. Durham; Mr. Liam Enda Horan, 43 Church Hill, Sligo; and Miss Una Swanton, 2 Osborne Terrace, Northbrook Road, Dublin.

The following changes of address were notified:—

Messrs. Liam Enda Horan, L.P.S.I., to 43 Church Hill, Sligo; John J. Howard, M.P.S.I., to 15 Cullenswood Gardens, Ranelagh, Dublin; and Dr. Sian-Chun Cheng, M.P.S.I., to c/o Etta Trading Co., 62 Connaught Road West, Hong Kong.

At a meeting of the Benevolent Fund Committee held following the Council meeting a number of grants were passed for payment.

## PHOTOGRAPHIC DEPARTMENT

# SELLING FLASH IN THE SUMMER

BY LESLIE G. SANDYS, A.R.P.S., F.R.S.A.

**I**F the idea of flash during the season of long, light evenings seems incongruous, a moment's consideration may serve to convince the sceptic that summer is, after all, the best time to get people interested in flash photography, and that it can lead to increased sales at once.

First, many more people at this time of the year are already interested in picture making than there will be in the winter. Selling them the idea of flash photography now is therefore merely a question of expanding their interest. Later on the problem may be to create interest—a much more difficult matter.

### Flash brings Extra Trade

Granted, then, that on the dealer's doorstep are people who are already snapshot-minded, the problem resolves itself into getting them into the shop and convincing them (a) that flash will help them to enjoy their cameras more and (b) that it is simple to use.

The simplicity can easily be demonstrated. There is no problem in that. The added pleasure flash brings to snapshotting can be shown first by letting the customer use a flash outfit, secondly by showing him some flash pictures which you have made. The personal angle is stressed because, if the dealer casually takes a wallet from his pocket, produces some typical "homely" flash prints (they can be of children, friends, pets, etc.) and explains that he took them the other evening, the customer is more easily and quickly convinced than if he is shown specimens on manufacturers' display material.

If people can be persuaded to take flash pictures in the evenings, long after the time when they would otherwise have put their cameras away until the next day, then it is obvious that the photography they do with flash is extra business for the dealer.

Moreover, if amateur photographers taste the fun of flashshots now, there is more than an even chance that they will continue to take such pictures throughout the winter. By pushing flash now, therefore, the dealer is not only increasing his summer sales but also building additional business for the off-season months.

### Flash in the Window

So many amateurs think that flash is for the professional and for the Press photographer that the first barrier to break down is the one which makes the customer think that flash is for the other man. The dealer's policy should therefore be to convince the customer that he is the man for whom simple flash outfits are made. They and a range of flashbulbs should be given as much prominence in the window as available space permits. A few typical enlargements from amateur flash negatives should also be shown—changed as often as possible. If suitable specimens are not at hand, why should not you—the dealer—take a



Suggestion for a window display to popularise summer-time flash photography.

camera and a flash outfit from stock and make your own! Then you can say quite truthfully, "These pictures were taken with this inexpensive outfit."

A special window display will help to attract attention to flash photography, and it can be made to produce more film sales and extra developing and printing orders if it is based on the theory of using flash to finish off the odd exposures left on the film taken during the day.

"Flash in the Evening" is the theme, and if some idea such as linking it with the day's activities can be introduced, so much the better. A shot of the fisherman's catch; the produce gathered from the garden; a picture taken at the evening dance; the fireside group; the kiddies at bath time; the pile of crockery facing the housewife after the picnic or the house party; all of these are suitable subjects for flash, and examples could be multiplied indefinitely.

The display suggestion shown can be varied to suit windows of any size. There is no need to crowd it with goods—just two or three flash outfits and cameras with flash-guns attached. A few good specimens should be included, one big enlargement as a set piece, and a slogan to tell the story.

## INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

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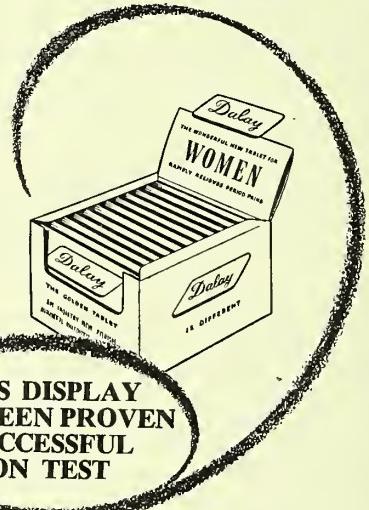
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## Urgent Questions

THE questionnaire now being sent out (p. 613) to 2,000 chemist contractors in England and Wales by the Pharmaceutical Whitley Council has an importance that can hardly be over-emphasised. The questionnaire asks for precise numbers of containers issued and received back in each of seventeen categories during the week June 20 to 26. The last time contractors were approached for information about container issues was in 1952. The questionnaire was then sent out by the Central N.H.S. (Chemist-Contractors') Committee and was entirely internal. From the information obtained, the committee made claims for increased payments for containers. Before any such claim is met the basis on which it is made has to gain the acceptance of the Pharmaceutical Whitley Council, and on that occasion unfortunately the Government side, while accepting the figures, did not accept the conclusions drawn from them. Essentially the difference of view was over the extent to which the figures applied to chemist contractors as a whole. The Government side demanded a finding of facts based on a "statistical sample" of the profession, that is a sample that would include every type of pharmaceutical business in numbers estimated as proportional to their existence in the country. The contractors' committee agreed.

The "sample" taken amounts to 2,000 contractors, representing every type and size of business. How important it is to the craft as a whole that every one of the 2,000 should complete and return the form as asked must be apparent alike to those chemists who are approached and to the remainder who are not. All should do whatever they can to ensure that a 100 per cent. return of the figures results. The form is a little frightening at first glance but in fact is arranged to enable the contractor to give the facts with a minimum of difficulty and without impeding the speed of dealing with customers. As each container is supplied a mark is made in a small square. The rest of the form can be completed at leisure. All the figures supplied are being kept entirely confidential, and the source from which any figures are obtained will not be disclosed by the Ministry of Health (which will, of course, be handling the totals). A similar inquiry is being conducted in November so as to obtain information relating to a winter as well as to a summer week. The inquiry is not concerned with proprietaries in original containers, since "the difference between numbers of containers issued and total number of prescriptions dispensed should give this figure."

## Keeping a Check on Prescribing

FULL details of the work of the Prescribing Investigation Unit of the Ministry of Health are stated (*British Medical Journal*, June 5, p. 296) to have been given to the general medical services committee of the British Medical Association. They were supplied in a letter sent to the secretary of the committee. The letter was doubtless intended to show how much the Unit has done, since its formation in 1950, to control excessive prescribing. If, however, a comparison is made between the work of the Unit and similar work done in investigating excessive prescribing through the pricing offices in National Health Insurance days, a contrast is revealed that only emphasises the inadequacy of the recent work. It confirms, too, our frequently stated view that effective control of extravagance is impossible without full pricing and systematic investigation carried out in properly staffed bureaux.

The Special Investigation Unit claims to have reviewed in four years the prescribing of 4,400 doctors, and to have prepared detailed reports upon 883 doctors. Seventeen cases have been referred to Local Medical Committees for formal action.

Before the 1939-45 war, the prescribing of each of the 17,000 panel doctors was reviewed, on rota, every nine months. The pricing offices submitted monthly lists to the Department showing, for each of the doctors under review in that month, his average number of prescriptions per patient on list and average cost per prescription, together with comparable data for the area as a whole. From those lists were picked out doctors whose averages were outstandingly high, and the pricing offices were instructed to prepare detailed analyses of their prescribing. Well over 1,000 such analyses a year were prepared and studied in the Department, and about 900 were referred to the regional medical staff for personal discussion with the doctors concerned. Finally, about twenty to twenty-five cases a year were referred to the panel committee for formal action under the regulations.

Under that system every doctor knew that his prescribing was under yearly review, and the knowledge undoubtedly kept prescribing within reasonable limits, enabling real extravagance to be dealt with promptly. Until there is a return to the systematic survey of every doctor's prescribing, to deal adequately with extravagance will not be possible. Small wonder that extravagance is more prevalent today than in National Health Insurance days.

The Ministry's letter gives as the main factors in excessive cost (a) excessive frequency in prescribing; (b) prescribing in unnecessarily large quantities; and (c) the ordering of expensive proprietary medicines where cheaper standard preparations might have been equally effective. It might have added (d) the ordering of antibiotics and other "wonder drugs" in cases where these are ineffective, or not superior to older remedies. The prescribing of chloramphenicol for a common cold, or giving a patient several different antibiotics and an assortment of sulphonamides to make sure that something works, may be cited as further examples.

It is difficult to say with precision how much of the real excess is due to (c) and how much to (a), (b) and (d), but it is clear that the prescribing of proprietary medicines is far from being the only, or even the

chief, factor in the high cost of the pharmaceutical service. In the circumstances, the Ministry might do well to moderate its campaign against proprietaries, and, instead, to intensify its efforts against real extravagance in all forms.

It will be remembered that a system of area averages was introduced in Scotland in March (see *C. & D.*, March 6, p. 239), and that reference was made in the House of Commons debate on May 10 to the prospect of an early introduction of area averages in England (see *C. & D.*, May 15, p. 497). In the same debate the Minister of Health revealed that all arrears of pricing would be overtaken in 1954. An early improvement in the scrutiny of prescribing is thus well within practical politics. The way to it is clear, and the sooner that way is taken the fairer to all concerned.

## Responsibilities in Vitamin Supply

THE results of a recent survey by the Birmingham analyst (see p. 618) show that stocks of pharmacopoeial vitamin preparations in pharmacies visited as part of a survey he organised were of satisfactory quality. The survey revealed, however, that most chemists considered the B.P. injunction on the strength to be dispensed or supplied when none is specified applies only to dispensing and not to retail sales. The actual words used in the pharmacopœia are "dispensed or supplied," leaving, apparently, no option to the supplier. The Birmingham analyst has unfortunately also drawn attention to the inadequate packaging provided by the retail suppliers of many of the samples of vitamin preparations obtained by his agents as part of the survey. Ninety-four out of 125 were supplied from bulk in non-airtight cardboard packets or boxes, despite the fact that, for four of the five preparations involved, the B.P. demands storage "in well-closed containers." It can hardly be doubted that the pharmacist should concern himself with the storage of the preparations he supplies up to the time of their reaching the patient, or at the very least up to the time they leave his hands. In the pharmacist's training stress has always been laid upon the packaging of products in accordance with their physical and chemical properties. It would be unfortunate if scientific principles absorbed and standards acquired during training were forgotten or set aside.

## Shops and "Key Money"

ALTHOUGH the law as to charging premiums ("key money") for living accommodation was tightened up several years ago, experience has shown that the strings have, as it were, slackened and may now be regarded as almost dangling in the air.

To chemists, the question of "key money" is primarily the concern of those trading in shop premises over which they occupy living accommodation. Such shops are generally controlled by the Rent Acts, for their ratable values are usually within the limit of £100 in London (£75 elsewhere in England and Wales, and £75 in Scotland).

There have been many cases in the past in which shopkeepers have paid key money in order to obtain a lease of their premises. Sometimes that key money has not been paid directly, but as part of a bargain that the prospective tenant would acquire fixtures, fittings, and perhaps furniture and furnishings as well.

If the price charged for those items is more than their reasonable market value, the excess is regarded in law as being in the nature of a premium or key money. The landlord who has charged it has not only made himself liable to prosecution, but is also bound to refund the excess to the tenant. Even where there has merely been the assignment of a lease to a tenant, the charging of "key money" is equally unlawful.

A sitting tenant trader, for instance, in disposing of his lease may have broken the law by taking a premium directly or indirectly from the purchaser, who would become the assignee of the lease. The tenant trader who sells his lease is entitled to pass on to the purchaser only:—

(a) Rates, taxes or other outgoings that are referable to any period after the assignment.

(b) Expenses incurred in carrying out structural alterations or in providing or improving fixtures that cannot be removed.

(c) A reasonable amount in respect of any goodwill that is transferred.

Where a tenant, or an assignee of a lease, considers that he has paid an excessive price for furniture, fixtures, fittings or other articles, he is entitled to have the items valued and to recover any excess of the sum paid over the figure arrived at on such valuation.

"Key money" can be recovered not only by proceedings in the courts but also by deduction from rent. And a recent decision of the court of appeal has determined that that right of recovery may be exercised at any time within six years of the payment. It might happen that a tenant who deducted the payment from his rent might be able to occupy the premises rent-free for some considerable period of time.

A prospective tenant who is asked to buy furniture, fittings or other articles is entitled to require the landlord to furnish him with a written statement specifying the articles and the prices required. On default of complying with that request the landlord renders himself liable to a fine of £10.

## CORRESPONDENCE

### RAISING CAPITAL

SIR,—I have a lady customer who is prepared to advance anything up to £4,000 to a young chemist in Scotland who wishes to purchase a chemist's business but has not the necessary capital. She has a son a doctor and she believes wholeheartedly in private enterprise.

73 SOUTH STREET, ST. ANDREWS

A. W. KEITH

### DISREGARD OF THE RULES?

SIR,—I refer to my letter of February (*C. & D.*, February 27, p. 215) wherein I noted that what was good enough for the chemist was too good for the appliance supplier. The correspondence received subsequently did nothing to mitigate the basis of that apparently severe statement. The pharmacist should now be aware that the Ministry of Health is determined to discard accepted rules of procedure when to do so is convenient to the Ministry, though holding the chemist contractor to the terms of service. The immediate example of this blatant disregard for contractual obligations is that basic prices for appliances were reduced, with the attendant fitting fee and percentage increase combined, despite the adverse recommendations of the principal representative bodies consulted. The chemist contractor received a scant ten days' notice of the introduction of those amended and reduced prices, but when notice was given of the withdrawal of the name of the company from the list of suppliers the Executive Coun-

cil insisted on three months' notice. A further example of the threat intended against the appliance supplier, in the first instance, is noted in the current tender for the supply of trusses under the Ministry of Health contract. The basic price quoted is comparable with the Drug Tariff basic price, plus fitting fee and percentage, but with the essential difference that the contractor is expected to visit, measure, supply and fit the truss at any hospital within a 25-mile radius, yet without any additional remuneration and with no addition for "special" trusses or additional items for which provision is made in the Drug Tariff. When that discrepancy was noted the Ministry of Health stated in a letter "you will be aware . . . that the prices payable . . . have always been closely aligned to those payable under the Pharmaceutical Service." The fact that that statement cannot be reconciled with the figures quoted does not appear to occasion any concern to the Ministry of Health. A further statement contained in the form ECN 149 relative to changes in the National Health Service Regulations states: "They have, of course, been agreed with the Central National Health Service (Chemist Contractors) Com-

mittce." The Ministry was not concerned to secure the agreement of the Central N.H.S. Committee in the matter of prices, and in fact ignored the recommendations of that Committee when imposing the reduction now in effect. The duplicity practised by the Ministry of Health should be abundantly clear to the most trusting of persons, even without the examples quoted. This latest attempt to reduce the remuneration of the appliance supplier to a level below that afforded by the pharmaceutical service is further evidence that what is good enough for the chemist is too good for the appliance supplier, but chemists will know from experience that this recent reduction is also a threat of reductions in Drug Tariff prices.

HULL

K. E. HOLMES

#### THANKS TO VOTERS

SIR,—I would like to thank very much indeed all those pharmacists who so kindly supported me during the recent Council election and apologise to them for this belated appreciation.

BRADFORD, 1

ERIC ROBINSON

## Onward from Galen

### A CURRENT CAUSERIE

BY speaking at the 250th anniversary of the teaching of botany in Glasgow University, Sir Edward Salisbury (director of the Royal Botanic Gardens, Kew) has forged another link in the long chain of connection between the Gardens and the botany department of that university. Sir William Hooker, who was appointed director at Kew Gardens in 1841, and was responsible for enormous extensions in the acreage and scope of the Gardens, had previously been professor of botany at Glasgow. Under Sir William's direction the whole of the pleasure grounds adjoining the botanic gardens at Kew were added, and laid out "as an arboretum for the cultivation of every tree and shrub which will withstand the open air of this climate" (see C. & D., 1923, 1, 929). Under his direction, too, the Palm House was built in 1848, when the first museum of economic botany was also opened. The lake was excavated between 1857 and 1861. Sir William was succeeded at Kew by his son, Sir Joseph Hooker, who returned to Glasgow in 1901 to open the present botany buildings at the university.



A REPRINT received in this office from the *Oesterreichische Apotheker-Zeitung* (1954, 8, 171-80) makes interesting reading and is at the same time useful source material for reference. "One of the last k.u.k. Berufs-Militärapotheker" (now chief pharmacist to the Leavesden Group Hospitals, Abbots Langley, Herts) reviews the history of military pharmacy in Old Austria on the occasion of the 160th anniversary of the foundation of the former Austro-Hungarian Pharmaceutical Corps. His tale begins in 1794, when Martin Lessner of Vienna was appointed *Feldapothekendirektor* by the Emperor Franz II. Lessner appears to have been a most capable man, and he was ennobled in 1807. In his second year of office he issued the first Austrian military pharmacopoeia in Latin. The fourth edition of that pharmacopoeia was published in German in 1859. In the fifth edition (1872) the metric system was adopted. Lessner had a number of able successors, whose careers and achievements are described and interwoven with the story of wars and of regulations. The article ends on a sad note: in March 1938 Austria ceased to exist as a *Bundesstaat* and with it went the *Bundesheer*, causing many of the author's former comrades to be dispersed to the four winds.



IN certain parts of the country it is customary for businesses to remain closed on the day following a bank holiday. Chemists in those areas who closed their shops on Whit Tuesday may, it seems, have been guilty of a breach of their terms of service under the National Health Ser-

vice Act. That, at all events, is the opinion given recently by the Clerk to the Wolverhampton Executive Council. No such closing appeared to have been considered, he said, when the regulations were drawn up. The manager of one of the closed pharmacies said that he and some of his colleagues regarded the day following a bank holiday as an early-closing half-day, and applied the regulations appropriate to half-day closings. Whether or not the matter is made the subject of a formal complaint to the Executive Council (and it only came into prominence by reason of a patient's pointing out that he had taken his prescription to several pharmacies and found them closed before eventually finding one that was open) it should be cleared up, for, as the secretary of the Pharmaceutical Committee has represented, it would be uneconomic for contractors to remain open exclusively for dispensing on days of local holiday.



A GOOD deal of interest seems to have been taken in our paragraph on June 5 about "Hospital at Work," the book describing and illustrating the work of the Middlesex Hospital, London. Readers may like to know that the book is readily obtainable through booksellers, price 3s. 6d. The publishers are Max Parrish, Ltd., 55 Queen Anne Street, London, W.1.

### A PHARMACIST'S ANTHOLOGY

I . . . PERCEIVED an apothecary's shop on the other side of the street, with the name of Morgan over the door: alarmed at this discovery, I could not help thinking that my old mess-mate had settled in this place; and upon inquiry, found my conjecture true, and that he was married lately to a widow of that city, by whom he had got three thousand pounds. Rejoiced at this intelligence, I went to his shop as soon as it was open, and found my friend behind the counter busy in preparing a glyster. I saluted him at entrance, with "Your servant, Mr. Morgan."—Upon which he looked at me, and replying, "Your most humble servant, goot Sir;" rubbed his ingredients in the mortar, without any emotion. "What!" said I, "Morgan, have you forgot your old mess-mate?" At these words, he looked up again, and starting, cried, "As Cot is my—sure it cannot—yes, by my saltation, I believe it is my dear friend Mr. Rantom."—He was no sooner convinced of my identity, that he threw down the pestle, overset the mortar, and jumping over the board, swept up the contents with his cloaths, flew about my neck, hugged me affectionately, and daubed me all over with terpentine and the yolks of eggs, which he had been mixing when I came in.—From "The Adventures of Roderick Random," by Tobias Smollett.

# ANTICONVULSANT DRUGS

A consideration of their  
structure and uses

BY S. J. HOPKINS, Ph.C.

**I**LLNESSES that exhibit few or no physical signs, but which are none the less real, have always been a problem to the physician and a puzzle to the patient. Epilepsy in particular has long had a peculiar fascination.

The falling sickness, as it was once called, appears to strike its victim in such an unpredictable manner that at one time the only acceptable explanation was that of demoniacal possession. That belief explains some of the more heroic therapeutic measures once employed. "Transfer magic," by which the disease could be passed to an animal, was a common method, whilst a more unusual remedy was to take nine pieces of human skull, grind to powder, and take a dose each morning. Regularity of dose until all the powder had been taken was essential, lest the dead man should return to claim his skull—a powerful incentive to continue treatment! One of the earliest drugs to be used in a therapeutic sense was silver nitrate, in doses of about one grain daily. More satisfactory results were obtained with large doses of potassium bromide, and that drug was used extensively before the phenobarbitone era. Once the potentialities of the latter compound were appreciated, the use of the bromides declined, and eventually phenobarbitone became recognised as the drug of choice in the treatment of epilepsy. Not being machines, however, patients do not always respond to drugs in exactly the same way, and some epileptics were not adequately controlled by either bromides or barbiturates.

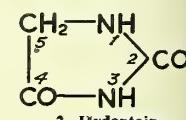
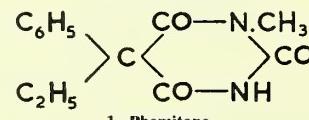
### Epilepsy and its Cause

Little further progress was made until a somewhat clearer picture was obtained of the disease. The immediate cause of an epileptic seizure is a cerebro-vascular disturbance, resulting in an attack of unconsciousness. When the attack is short, and not accompanied by convulsions, it is known as *petit mal*. Longer attacks with general convulsions are often referred to as *grand mal*. Jacksonian epilepsy is a variety of *grand mal* in which loss of consciousness occurs at a later stage of the attack. *Petit mal* is often regarded as a relatively uncommon disease, and in children it is often very difficult to diagnose. The attacks are characterised by a momentary loss of consciousness without warning or subsequent recollection, and may take the form of a stare, a failure to reply, a blank expression or an involuntary movement, followed by rapid recovery.

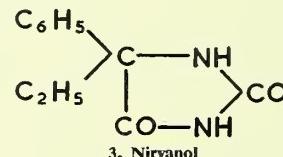
Epileptic seizures are associated with an abnormal metabolism of brain-cells, and electro-physiological studies have shown that the electric discharges from the brains of epileptics, as recorded on the electroencephalogram, have aberrant rhythms that are characteristic of the type of seizure. The initial success obtained by treatment with barbiturates intensified the search for more active compounds. Epileptiform convulsions can be produced in animals by electric currents, injections of leptazol (Metrazol), or even, in rats, by the loud ringing of bells, and experiments along those lines soon indicated that the prophylactic action of phenobarbitone was due more to a specific anticonvulsant effect than to its general sedative properties. Many compounds, originally synthesised in the search for new sedatives, were therefore re-examined for anticonvulsant powers, and the

N-methyl derivative of phenobarbitone (phenemitone) was introduced as a more active anticonvulsant under the name PROMINAL (1). Some hydantoin derivatives also proved to be of considerable interest.

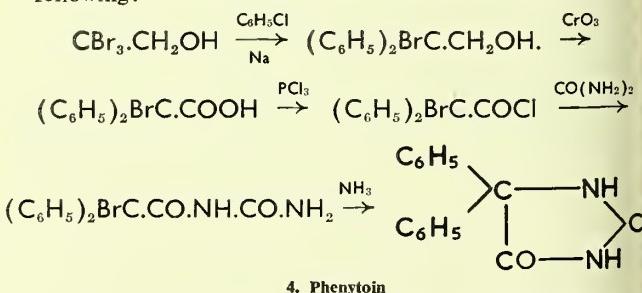
HYDANTOIN, or 2:4-diketo-tetrahydro-glyoxaline (2) is not



employed therapeutically as such, but at one time the phenylethyl derivative was prescribed in the treatment of chorea under the name NIRVANOL (3). It is of interest to note that this compound is analogous to phenobarbitone, being the phenyl-ethyl derivative of glycolyl instead of malonyl urea.



Nirvanol, however, proved too toxic for general use, but subsequent research showed that the corresponding diphenyl compound, while possessing little general sedative effect, has exceptional anticonvulsive properties, and the sodium salt was introduced about 1938 as EPANUTIN, also known under the non-proprietary name phenytoin sodium (4). Phenytoin may be synthesised in several ways, one of which is the following:—

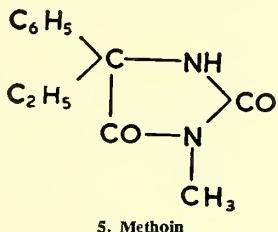


The drug is given in doses of 0.05-0.1 gm. and is of great value in convulsive disorders, although the best results are obtained in *grand mal* rather than *petit mal*. The compound is very alkaline, and may be given after meals in order to minimise possible gastric irritation. With phenytoin and indeed with all other drugs of this nature, initial dosage and withdrawal of other treatment must be gradual. If that rule is observed the transition from one drug to another may be carried out without incident, otherwise withdrawal symptoms may occur whilst the new drug is becoming established. In some cases the best results are achieved by combined phenobarbitone and phenytoin therapy but, as the two drugs have different modes of action, it is necessary to give adequate doses of each.

The margin between the therapeutic and toxic doses of phenytoin is not wide, and toxic reactions such as nausea, drug-rash and fever may be experienced. An interesting long-term reaction that occurs in a few patients is gingival hyperplasia or overgrowth of the gums. The cause is unknown. It recalls the local growth of the gums seen in scurvy, though the administration of vitamin C does not effect any improvement, and it is noteworthy that toothless areas are not affected.

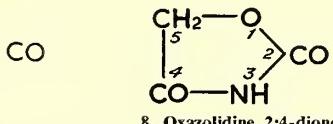
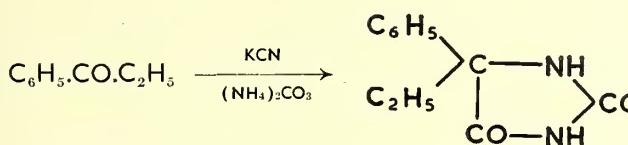
### Mesontoin (Methoin)

The success obtained by the use of phenytoin in the treatment of *grand mal* marked a great advance, but valuable as the new drug was, it had some inherent disadvantages. Phenytoin is invariably given as the sodium salt, and the high pH of the drug in aqueous solution may cause some gastric disturbance. In resistant cases large doses are necessary, but are not always well tolerated, and research was directed towards finding an acceptable alternative for such occasions. One such compound is **METHOIN**, 3-methyl-5:5'-phenyl-ethyl hydantoin (5) originally introduced as Mesontoin.



5. Methoin

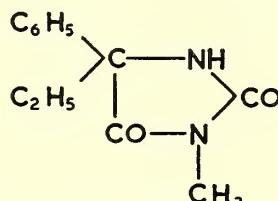
It may be synthesised by methods analogous to those indicated under phenytoin, or from phenylethyl ketone thus:—



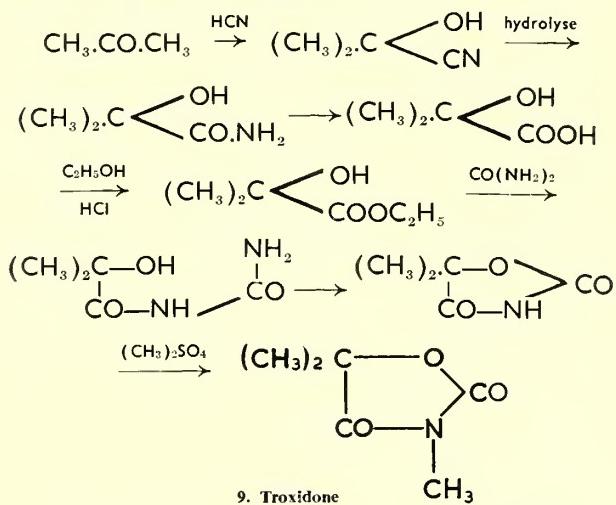
7. Hydantoin

8. Oxazolidine 2:4-dione

Research on those derivatives indicated that many had sedative and anticonvulsant powers, but that the influence of substituents was important. Eventually it was shown that 3:5:5-trimethyl-oxazolidine 2:4-dione (**TROXIDONE**) possessed high activity and relatively low toxicity, and the new compound was introduced for trial under the name Tridione (9). Compounds of this type can be synthesised by many routes, but the process devised by Stoughton gives the required compound in good yield. Basically the method involves the conversion of a suitable ketone to dimethyl glycollic acid, which is esterified and the ester condensed with urea in the presence of sodium ethylate, ammonia



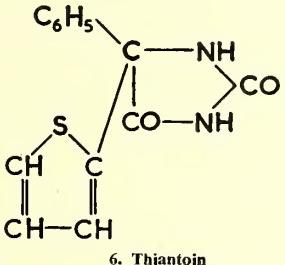
being split off. The product cyclises to give the 2:4-dione. The scheme may be summarised thus:—



The compound is almost neutral in solution, and many patients who find difficulty in taking phenytoin, or in whom response to the drug is variable, can tolerate Mesontoin in high doses. In severe attacks of *grand mal*, doses up to 1.5 gm. daily have been given. Side reactions are few, and gingival hyperplasia is rare, but skin reactions and pyrexia may be found in susceptible patients.

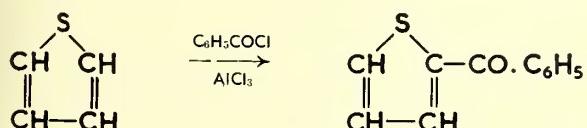
### Thiantoin

**THIANTOIN** is a related compound and it differs from phenytoin in having a thiényl instead of an ethyl group, being 5-phenyl-5'-(2-thienyl) hydantoin (6).



6. Thiantoin

It may be synthesised in a manner somewhat similar to that for Mesontoin, after preparing the necessary phenyl-2-thienyl ketone thus:—



Clinical experience since the compound was first introduced has shown that it is of great value in the treatment of *petit mal*, but in *grand mal* it is much less successful. When both types of seizure are experienced by the same patient, an anticonvulsant combined with another drug is

usually necessary. Reduction in the number of seizures may be achieved in doses varying from 1 to 2 gm. daily, and improvement is often accompanied by a change in the pattern of the electroencephalogram towards that of a more normal character.

### Side Effects

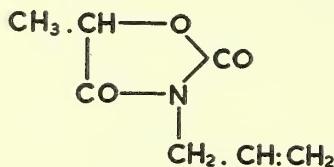
Serious toxic effects with troxidone are relatively few, but skin rashes may be experienced, and various blood dyscrasias have been reported. For this reason some prefer to examine the blood picture of patients on troxidone at intervals, so that incipient agranulocytosis may be discovered and treated early.

The most troublesome side effect is the so-called "glare phenomenon." Patients susceptible to this reaction state that when out of doors they see brightly illuminated objects white as though covered with snow. Such visual disturbances are not often due to drugs, though similar effects have been reported during digitalis therapy. In severe cases withdrawal of the drug may be necessary. No damage to the visual apparatus has been demonstrated, and it is considered by some workers that the cause is associated with cone function, and that it is a neural and not a photochemical disturbance. Tolerance sometimes develops if treatment is prolonged.

### Malidone

The encouraging response obtained with troxidone led at once to the examination of some associated diones. Comparative tests on anticonvulsants can be carried out by observing the effect of the drug under test on leptazol induced spasm. The method is more satisfactory than using strychnine as the convulsive agent, as with leptazol the convolution, when produced, is more complete, and the protective action of the drug is easier to assess.

Promising results were obtained with compounds possessing an unsaturated side-chain, and 3-allyl-5-methyloxazolidine 2:4 dione eventually reached the state of clinical



10. Malidone

trial, and was subsequently marketed under the name Malazol, also known as MALIDONE.

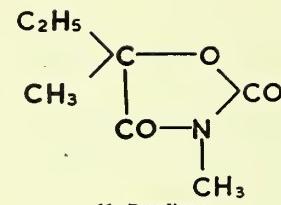
It was soon shown that Malidone was very effective in preventing attacks of *petit mal*, and that the "glare phenomenon" associated with troxidone was noticeably absent. The drug, however, is of very limited action in *grand mal*. Indeed, if it is given to a patient who experiences both types of attack, the suppression of one may be accompanied by an exacerbation of the other, and combined treatment with phenobarbitone and/or phenytoin sodium may become necessary.

Malidone is therefore primarily indicated in *petit mal*, and other conditions that show a similar electroencephalographic pattern, such as myoclonic and akinetic epilepsy. The average daily dose is of the order of 0.9 gm.

### Paradione

PARADIONE is 3:5-dimethyl-5-ethyl-oxazolidine 2:4-dione, and hence differs from troxidone only in the substitution of an ethyl for a methyl group in the 5-position.

It is effective in the control of *petit mal*, though less so than troxidone, but individuality of response is so common a feature of epileptic therapy that an alternative drug is always an asset. The main use of paradione, therefore, is in cases that do not respond satisfactorily to other drugs.

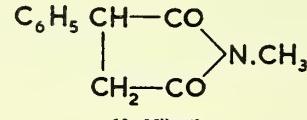


11. Paradione

Conversely, it is useful when the side effects of troxidone are unduly troublesome. Small doses of both drugs may then prove more effective than either alone.

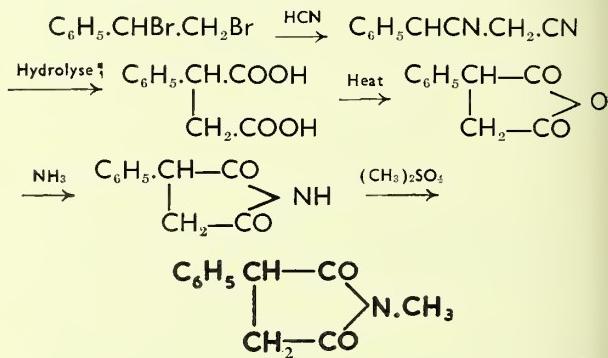
### Milontin

MILONTIN differs from other anticonvulsant drugs in that it is a succinimide derivative, N-methyl-phenyl-succinimide (12).



12. Milontin

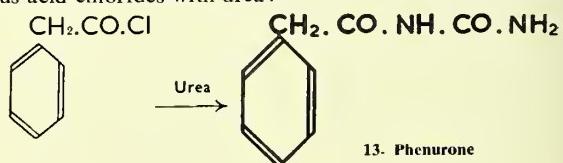
A possible synthetic route is from phenyl-ethylene dibromide, which can be converted into the corresponding dicyanide. The dicyanide is easily hydrolysed to phenylsuccinic acid. Loss of water is followed by closure of the ring, and phenyl succinimide can then be obtained by heating the product in a current of ammonia. Methylation follows with dimethyl sulphate in the usual way.



Milontin compound is not yet available in Great Britain, but preliminary reports indicate that it is of considerable interest in the suppressive treatment of *petit mal*. In many cases complete control of symptoms is possible, and good results have been obtained in patients that have not shown any marked response to other drugs. Initial doses are of the order of 0.5 gm. twice daily, irrespective of age, increased gradually until an adequate effect is obtained. Doses in excess of 3 gm. daily are seldom required. Toxic effects are relatively few, and from experience to date it would appear that the risk of damage to the haemopoietic system is less with Milontin than with some other anticonvulsants.

### Phenurone

PHENURONE is an anticonvulsant drug of a type basically different from any of the foregoing. Chemically it is phenyl-acetylurea (13), and is one of a group of compounds synthesised by Spielman in 1948 by the interaction of various acid chlorides with urea:



13. Phenurone

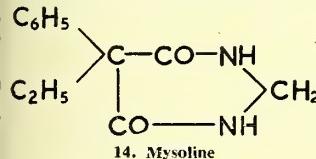
The main clinical application of Phenurone is in the treatment of patients who have not responded to the more common forms of anticonvulsant therapy. The drug is a valuable tool in such cases, but as it carries with it a definite risk, careful assessment of previous treatment and individual suitability are essential. Phenurone is most effective in the control of psychomotor attacks (disordered actions without loss of consciousness), and to a lesser extent in *grand mal* and *petit mal*. Initial doses are of the order of 0.5 gm. three times a day, gradually increased until a daily dose of 2-3 gm. is taken.

Valuable as the drug is in suitable cases, it should only be used in treatment by persons who can, from experience, weigh the risks against the possibilities of improvement. Some of the toxic effects, such as hepatitis and general depression of the haematopoietic system, are encountered with other drugs, but with Phenurone certain personality changes may occur. These may take the form of acute depression with suicidal tendencies, and in others aggressive characters may appear.

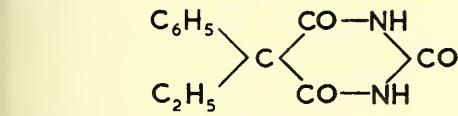
It is possible that some of those changes may be linked with the size of the dose. Toxic reactions are most likely to appear if the dose exceeds 2 gm. daily. Smaller doses, possibly given with some other anticonvulsant, may offer a more satisfactory scheme of treatment.

#### Mysoline

MYSONINE compound is the latest drug to be introduced for the treatment of epileptic conditions. It is a pyrimidine derivative, 5-phenyl-5-ethyl-hexahydropyrimidine-4:6-dione (14), and therefore has some structural resemblances to phenobarbitone (15).



Clinical experience has shown that Mysoline is very effective in the control of *grand mal*, but gives less convincing results in other epileptic states. An initial drowsiness is



15. Phenobarbitone

often observed at the commencement of the treatment, but toxic side effects are markedly less than with many other anticonvulsants. In optimum doses not only are the seizures controlled but a general sense of well-being often replaces a previous lethargy.

The initial dose is 0.25 gm. given in the evening, and that dose is gradually increased until a daily dose of about 1 gm. is taken. Larger doses may sometimes be required, but increasing drowsiness should then be regarded as a sign of over dosage. Good results have been reported in patients who have not responded to other drugs, and increased co-operation and a return of social interest have been encouraging aspects of improvement.

Thus at the present time the physician has the choice of several anticonvulsants, some possessing a similar basic structure, whilst others have no apparent connection with any other members of this group of drugs.

The diversity of structure represented suggests that the mechanism of their activity is also varied, and the advent of new compounds, with different modes of attack, may well be a future development. Combined treatment may then achieve consistent results of a higher order than that as yet attainable.

#### REFERENCES

- Spielman, M. A., et al., *J. Amer. Chem. Soc.*, **70**, 4189.
- Lennox, W. G., *J. Amer. Med. Ass.*, **129**, 1069.
- Stoughton, *J. Amer. Chem. Soc.*, **63**, 2376.
- Chen, G., et al., *J. Pharmacol.*, **103**, 54.
- Handley, R., Stewart, A. S. R., *Lancet*, 1952, **1**, 742.

## MEDICAL ABSTRACTS

### PENICILLIN GIVEN ORALLY TO CHILDREN

TRIALS carried out by Beasley and MacPherson (*Lancet*, 1954, **1**, 861) show that satisfactory serum levels of penicillin were maintained for four hours in children weighing up to 40 lb. and for six hours in children weighing up to 25 lb. by a 300,000-unit oral dose of benzathine penicillin. A dose of 600,000 units produced satisfactory levels for four hours in children weighing 40-70 lb. and for six hours in those weighing 25-40 lb. Penicillin levels were estimated by a capillary technique using a strain of *Streptococcus pyogenes* as the assay organism. The authors suggest as a dose scheme, six-hourly doses of 12,000 units per lb. body weight or four-hourly doses of 8,000 units per lb. With few exceptions children liked the flavour of the drug. There were no rashes but of 131 children treated twenty-six had loose stools and three, nausea and vomiting. None of those side effects was really troublesome.

### PAS AND THYROID IODINE UPTAKE

THAT PAS treatment causes a slight interference with the uptake of iodine by the thyroid has been demonstrated in *in vivo* tests reported by Balint and Fraser (*British Medical Journal*, 1954, **1**, 1234). Thirty unselected patients who were receiving PAS treatment were each given two tests—one just before, and one at four to seven days after stopping the drug. The dosage of PAS had mostly been 20 gm. daily. The test used was the urinary excretion of radio-iodine after administration of the substance. When PAS was given for less than six months the reduced iodine uptake seemed usually to be adequately compensated by a slight thyroid hyperplasia. When PAS was given for more than six months the results indicated that thyroid function might be affected. Ten out of eleven patients exhibited a marked iodine uptake on withdrawal of PAS. The authors suggest that when PAS is given for more than six months a weekly dose of iodide should be given.

### PROLONGED CORTISONE ADMINISTRATION

AFTER a trial on twenty patients incapacitated with rheumatoid arthritis, of long-term use of cortisone, Copeman and others (*British Medical Journal*, 1954, **1**, 1109) report that seventeen patients were enabled to return to work. Fourteen of the patients received the drug for periods ranging from two to three years, the other six, from sixteen to twenty-two months. The dosage was 100 mgm. or 75 mgm. initially followed by 50 mgm. or less each day. In three cases there was evidence of increased blood pressure and in three there were gastric complications. Nine patients developed mild obesity (rounding of the face). The authors state that while cortisone represents a practical addition to treatment it is not actually curative and they consider that other methods of treatment (rest, salicylates, gold salts, physiotherapy) should be tried first. Contraindications to cortisone therapy were recent or active tuberculosis, psychosis, neurosis, diabetes, hypertension and severe osteoporosis. The most suitable cases were those in which the functional disability from arthritis exceeded the joint damage.

### CORTICOTROPHIN AND ASTHMA

A CONTROLLED trial of corticotrophin against asthma is reported by Ball (*Lancet*, 1954, **1**, 1162). Six patients were each given corticotrophin by injection in 25-mgm. doses, six-hourly for seven days, eight-hourly for two days and twelve-hourly for three days. Seven patients were given saline injections at the same intervals. Those responsible for administering the injections did not know which preparation each patient received. Seven other patients were treated with known corticotrophin because they were considered to be too ill to enter the trial. Five of the six patients receiving the active preparation in the trial were markedly improved as compared with two of those receiving saline solution. Much improvement took place in three of the seven patients on known corticotrophin. The author states that there was a strong clinical impression that the drug was valuable in the treatment of most patients with severe chronic asthma. In some the effect appeared immediate and dramatic, in others slower. The only serious side-effect (noticed in three patients) was severe retention of fluid with signs of congestive heart-failure.

# The Contribution of British Pharmaceutical Manufacturers to MEDICAL PROGRESS

(Concluded from THE CHEMIST AND DRUGGIST, May 22, p. 534)

**T**HOUGH dealt with as a conclusion to the present short series of articles showing how closely manufacturers in this country have been associated with advances in the medical armamentarium, the contribution of Burroughs Wellcome & Co. and its associated organisations has one of the earliest, most prolonged and richest in achievement of any.

### *One of the First to Promote Research*

The late Sir Henry Wellcome was, indeed, one of the first to appreciate the important part which research work within the pharmaceutical industry could play in the furtherance of the medical and allied sciences. The various research units founded by him from 1894 onwards were accordingly given broader terms of reference than were then customary in industrial laboratories. To ensure that the workers in those establishments were not trammelled by the restrictions that sometimes confine the scope of industrial research organisation to *ad hoc* investigations of day-to-day problems, he had the various Wellcome research laboratories placed under direction separate and distinct from that of the pharmaceutical production and distributive organisation of Burroughs Wellcome & Co. Later, however, he found it expedient to consolidate his numerous enterprises in various parts of the world into a private limited liability company, The Wellcome Foundation, Ltd., which was registered in 1924. That unifying step enabled him to dedicate the profits of the whole organisation to a unique philanthropic project devoted to medical research in the broadest terms.

Five trustees, in whom all the shares of The Wellcome Foundation, Ltd., are vested are also empowered under Sir Henry's will to establish research museums and libraries in any part of the world, and to give financial assistance for the collection of information of every kind connected with the history of medicine and allied sciences. The unusual relationship between the Foundation and its trustee-shareholders enables it to pursue an exceptionally liberal policy in the research it undertakes.

Sir Henry Wellcome was also notably ahead of his time in encouraging his scientific workers to publish original work in the scientific Press—an example that has since been followed in most branches of industry and technology. Since 1903 more than 700 original papers, ranging over the fields of pharmacology, immunology, bacteriology, and chemistry, many of them with a marked influence on scientific thought, have been published from the Wellcome laboratories. In the earlier years much of that original work was carried out in what were then styled the development laboratories of the Wellcome chemical works at Dartford, Kent. Much of the early work on the constituents of ergot, the relationship of chemical structure to pharmacological action among the tropones, and, in 1930, the extraction of digoxin from *Digitalis lanata*, was carried out under the direction of the late Dr. H. A. D. Jowett, and subsequently that of Dr. Sydney Smith. Those laboratories have since been incorporated in the chemical division of the Wellcome Research Laboratories at Beckenham, but throughout their independent existence they worked in close collaboration with the other Wellcome research units, and participated in many important projects, including that which resulted in the synthesis of Sulphetrone and sulphaguanidine.

The Wellcome research laboratories at Tuckahoe, U.S.A., follow much the same pattern as that of their British coun-

terparts, with perhaps a tendency to lean more exclusively in the direction of chemical synthesis and problems of pure chemistry. In those laboratories globin insulin was developed, as well as the valuable antihistamine chlorcyclizine (issued as Histantin in Great Britain) and Marzine brand cyclizine hydrochloride, a compound of specific value in the prevention of motion sickness. Another important contribution from those laboratories, illustrating how their work is co-ordinated with that of the Wellcome research organisation as a whole, is the recently introduced anti-malarial Daraprim, synthesised in the Tuckahoe laboratories and proved efficacious by *invivo* tests at the Wellcome Laboratories of Tropical Medicine, London. The tropical-medicine laboratories are probably best known for their important work on protozoology, and for many valuable discoveries in the chemotherapy of tropical diseases caused by protozoal parasites, such as leishmaniasis (kala azar) and schistosomiasis, for which a valuable new antimonial compound, Triostam sodium antimonyl gluconate, has been developed. The biological section of the Wellcome Research Laboratories at Beckenham has been most notably identified with advances in immunology, among which such discoveries as diphtheria alum-precipitated toxoid (A.P.T.) stand out as landmarks in half a century of research work on diphtheria immunisation. The study of animal diseases and their control, in the Wellcome laboratories, dates from 1912, and has resulted in a series of advances too numerous to mention in detail. One of the most important investigations was that on the *Clostridium welchii* group of organisms, which led to the present-day methods for preventing lamb dysentery, braxy and pulpy kidney disease. The need for greater accommodation led to the establishment in 1943 of the Wellcome Veterinary Research Station at Frant, Sussex, which affords facilities for large-scale field studies on farm animals.

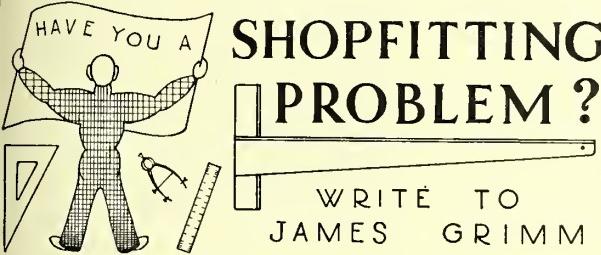
A survey of the work accomplished in the Wellcome research organisation throughout its fifty years' existence shows, in fact, a singleness of purpose clearly defined in the terms of the Wellcome bequest: the alleviation and prevention of disease.

### *Co-operation in Research*

It is fitting to conclude on a note of fruitful co-operation between British manufacturers. The field in which that has been most remarkable has been insulin research, as the report of the Monopolies and Restrictive Practices Commission pointed out in 1952. Many of the details of insulin manufacture are secret, and the process requires great care and expertise. So far as Great Britain is concerned the story of insulin manufacture commenced in 1922 after the return of Dr. (now Sir) Henry Dale and Dr. W. H. Dudley from Toronto, where they had conferred with Drs. Banting and Best, discoverers of the hormone. Insulin was first prepared commercially but on a laboratory scale at the Wellcome Physiological Research Laboratories. Simultaneously work on the preparation and standardisation of the hormone was begun at the National Institute for Medical Research. The Medical Research Council later decided to issue licences for manufacture to five or six producers, and eventually gave permission to Allen & Hanburys, Ltd., and The British Drug Houses, Ltd., jointly (the AB partnership), who were very early in the field with a commercially available product; to Boots Pure Drug Co., Ltd., Burroughs Wellcome & Co., and Evans Medical Supplies, Ltd. The last-named company did not pursue the

manufacture of insulin, though it later re-entered the field of insulin supply. Duncan, Flockhart & Co., Ltd., conducted experimental work but did not proceed with production. The manufacturers worked closely with each other and with the Medical Research Council to elaborate methods of standardisation. In 1923 patent rights for the "picrate" method of producing insulin evolved at the National Institute of Medical Research were made freely available to manufacturers. Crystalline insulin was later issued by Burroughs Wellcome & Co. in 1934, by the AB partnership in 1937 and by Boots Pure Drug Co., Ltd., in 1940. Protamine insulin and protamine zinc insulin were introduced into Britain in 1936 and 1937. In 1941 the British Insulin Manufacturers' organisation was formed, and the participants, who included all insulin manufacturers in Britain, decided to undertake joint research to increase the yield of insulin from the limited war-time supply of pancreas glands then available. The results of previous research activities were pooled, and the processes were compared. Factory visits were exchanged in 1942, and according to the Commission a "remarkable increase yield of insulin per lb. of pancreas resulted from the development and the use of B.I.M. "know-how." The development of globin insulin has already received mention.

Altogether, the record of British manufacturers is one in which they can take pride, and pharmacists may join the public at large in hoping that their work will continue to advance the cause of the health of the community.



WRITE TO  
JAMES GRIMM

*I have recently taken over premises in which the existing shopfront is quite suitable but in a very dilapidated state. Can you recommend any methods of renovation?*

QUESTIONS upon renovation are always difficult to answer as, short of a thorough examination, it is impossible to know the state of the neglect. You have also omitted to state what materials were used in the construction of the shopfront. In consequence the reply must be upon broad rather than specific lines.

If the shopfront has a sunblind it is probable that the blind roller spring requires some attention. New canvas may also be necessary. The blind arms should be thoroughly examined to see that they are sound and in good working order, as if a breakage should occur in one of them it might result in an accident to a passer-by.

Presumably the facia is of either marble or vitrolite. If a change of name has taken place the marble would have to have the old letter holes filled in, or, if it is a vitrolite facia, certain sheets of vitrolite may have to be renewed. It is unlikely that the old letters will be good enough to use so new facia lettering would be necessary. If the shopfront sashes are of hardwood they will have to be completely stripped of the old polish and any cracks, mitre joints, etc., stopped off and the whole repolished. If the sashes are of drawn bronze metal they would need to be cleaned down to the bright metal and then chemically retoned. The sashes may be of stainless steel, which, despite its name, has become badly corroded. Corrosion is difficult to deal with as the rust bites into the face of the metal and pock marks its surface. The pock marks can be ground out with portable hand-grinding machines and then buffed up to something near its original finish, but that is a skilled process, and demands considerable care from the operator.

The stallrisers may be of granite, tiles, black glass or coloured vitrolite. Provided there are no breakages, a

thorough scrub down should suffice. If the stallrisers are of marble, a certain amount of stopping-in may be required, and the whole treated with a wax or oil to try to revive some of the marble colour. The window beds and enclosures, usually of polished hardwood, will have to be stripped of their old polish, the cracks and joints filled in as required, and the whole area repolished. The electric lighting to the windows, neon signs or neon facia-lettering should be thoroughly examined and put in good order by a qualified electrician, care being taken that any time or fire switches, etc., are operating correctly.

If the entrance door has an overhead door spring or an inset floor spring it would be well to have it properly examined and renovated, the doors, inside bolts, and mortice lock examined—for the obvious security reasons.

*We are considering a new facia and sunblind to our existing shopfront and would welcome advice upon materials and methods of construction. Our shopfront has wood frames and a tiled window riscer and our present facia is glass with the name painted on the rear face. The paint is now peeling off, apparently because of water penetration from the blind box above. The blind box and canvas, etc., must be renewed, as they are in a bad state. The rough sketch we enclose, giving heights, will perhaps enable you to visualise the present facia and sunblind. Can you also recommend any particular type of facia lettering?*

THE rough sketch details you enclosed, giving the sunblind position and heights is most helpful and I trust that the following comments will help you. From the heights given I would say it would be practical to fix your new sunblind below and not above the facia as it is at present. That is advisable as it still enables the public to read the facia name when the blind is extended, whereas, if the blind is above the facia, it conceals the trader's name when in use. Owing to the varying heights of shopfronts that is not always practical, but where the heights allow it, the blind below the facia is advised.

As your shopfront sashes are of hardwood, and presumably either polished or painted, your new sunblind and new facia frame should be treated in the same way, so as to remain in harmony with the existing details. The choice of facia materials is largely one of taste and expense. Granite, marble and glass are some of the materials used for facias, the latter being most frequently employed on account of the fairly wide range of colours in which it is obtainable and the fact that it is the most economical to install. For durability, polished granite is naturally the best. It will remain in excellent condition for years. Marble or travertine is also good, but maintenance is necessary from time to time, and some types of marble are less durable than others. Coloured glass, or vitrolite as it is more commonly called, is the material most commonly seen on facias as it is obtainable in gay colours, is easy to fix, and is reasonably inexpensive. In your circumstances the sheets of vitrolite should be carried in a hardwood frame and a wood structural skeleton framing would also be necessary as a backing. The top of the facia frame would need to be flashed back into the building face, the flashing being either of lead or of zinc, so as to prevent water from penetrating down the back of the facia, where it would cause the structural backings to warp.

Several types of facia letters are available. With a vitrolite facia the most economical plan would be to have the lettering acid embossed into the face of the vitrolite and the letter faces then filled in with enamel paint. If a letter with a certain amount of depth is required, the built-up sheet-metal letter is best. That is formed from sheets of lead-coated steel, cut, formed and welded together in the style of letter desired and then stove enamelled to an approved colour. That type of letter lends itself to the formation of the many varied forms of lettering seen on facias today. It also allows for the introduction of neon centres or outlines if desired. There are also available plain cast bronze letters and cast bronze letters with vitreous enamel centres. They are a little more formal in appearance, and mostly seen on building-society and bank buildings. They are comparatively expensive to produce.

*Have you a shopfitting problem? Write to James Grimm, c/o the Editor.*

## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

**LONDON, JUNE 16:** There has been little evidence during the week of any improvement in the general demand for CRUDE DRUGS, a few commodities excepted. All grades of ZINC OXIDE were increased by £3 per ton on June 16. ACETONE is being reduced on June 18.

There were isolated offers of IPECACUANHA on the spot; shipment parcels are still difficult to obtain, and when received are usually snapped up immediately if the price is reasonable. The amount of CASCARA SAGRADA being received at the collecting points in the United States is reported to be well below what is required to fill orders already booked. In consequence, forward quotations have taken a further sharp rise, and shippers are not anxious to undertake further commitments until the supply position becomes clearer. SENEGA is also in tight supply, both on the spot and at origin. TOLU BALSAM was quoted at 26s. per lb., against 25s. in the previous week. In AROMATIC SEEDS, CELERY was quoted lower on the spot, following the receipt of lower quotations for the new crop from India. The prices of SHELLAC continue to harden week by week, f.o.t.n. pure being quoted at 292s. per cwt. against 180s. a year ago. Thirty-seven tons of RAUWOLFIA SERPENTINA were shipped from Tuticorin to New York and nine tons to Rotterdam at the beginning of June. A further twenty tons are expected to be shipped to the United States, the United Kingdom and Continental ports this month. No Tinnevelly SENNA LEAVES were shipped to the United Kingdom from Tuticorin during May. Senna shipments from that port during May were as follows:

	GREAT BRITAIN	UNITED STATES	EUROPE
LEAVES	bales	bales	bales
PODS	55	—	92

New-crop Tinnevelly senna has started to arrive in the warehouses, but none has been shipped yet.

New schedules have been issued for STEARATES, most items showing a rise in price. ZINC STEARATE, B.P., is now £268 10s. per ton.

In ESSENTIAL OILS, Ceylon CITRONELLA for shipment was threepence per lb. dearer, while PETITGRAIN was sixpence dearer on the spot. PATCHOULI, Penang, at 55s. was up one-shilling per lb. Among oils quoted lower were PEPPERMINT, Chinese *Arvensis*, and LEMONGRASS, East Indian (both threepence per lb. down).

### UNITED STATES CHEMICAL AND DRUG REPORT

**NEW YORK, JUNE 15:** Sixteen chemical items imported into the U.S. last year with duties of 50 per cent. or more, are now under investigation by the U.S. Tariff Commission to determine whether the tariff can be lowered without injuring American producers. Included are STEARIC ACID, CHLORO-

FORM, BREWERS' YEAST, COLOURING and FLAVOURING EXTRACTS, SODIUM NITRATE, PHOTOGRAPHIC COALTAR CHEMICALS, DIETHYL BARBITURIC ACID and LINSEED OIL.

Local prices for MENTHOL were sharply higher, making the Brazilian material \$5.75 per lb. (up 15 cents), and the synthetic leave also \$5.75 (30 cents). Higher costs of COCA LEAVES pushed COCAINE ALKAЛОІD up to \$17.95 per oz. (\$2.65), and the HYDROCHLORIDE to \$13.75 (\$2). Among CRUDE DRUGS, IPECACUANHA was higher at 65s. per lb. by 25 cents.

Higher per lb. among ESSENTIAL OILS were CEDAR LEAF at \$2.20 (up 10 cents); Formosan CITRONELLA, 90 cents (up ten cents); and Java type, 85 cents (up seven cents).

### Pharmaceutical Chemicals

ACETANILIDE.—1-cwt. lots are now 2s. 9½d. per lb. for crystals and 5-cwt., 2s. 8½d. Powder is 1d. per lb. more.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

DIPHENAN.—Prices range from 58s. to 67s. per lb., according to quantity.

EMETINE.—Prices for 32-oz. or 1-kilo lots are as follows: HYDROCHLORIDE, 230s. per oz. or 8.11s. per kilo. The BISMUTH IODIDE is 115s. per oz. or 4.056s. 6d. per kilo.

EPHEDRINE.—In 100-oz. lots ALKAЛОІD is about 8s. per oz. (26s. per kilo); HYDROCHLORIDE, 4s. 7d. (16s. 8d. per kilo); SULPHATE, 5s. 6d. (19s. per kilo).

GALLIC ACID.—B.P.C. is 8s. 1d. per lb. for 1-cwt. lots.

HEXOBARBITONE.—B.P. in 1-cwt. lots is 55s. per lb.

HYPOPHOSPHITES.—Prices per lb. are unchanged as follows:—

SALT	Under 7 lb.		
	7 lb.	28 lb.	1 cwt.
AMMONIUM ..	12 10	12 5	12 0
BARIUM ..	7 10	7 5	7 0
CALCIUM ..	5 11	5 6	5 1
IRON ..	12 1	11 8	11 3
MAGNESIUM ..	9 4	8 11	8 6
MANGANESE ..	12 4	11 11	11 6
POTASSIUM ..	7 11	7 6	7 1
SODIUM ..	6 7	6 2	5 9

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C. are: 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM OXIDE, B.P.—Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 4d. per lb. for minimum 1-ton lots.

MANDELIC ACID.—1-cwt. lots in 28-lb. containers are 10s. 9d. per lb. The CALCIUM SALT is also 10s. 9d. while SODIUM is 11s. 3d. per lb. for 1-cwt. lots.

METHYLPHENOBARBITONE.—B.P. is 45s. per lb. (1-cwt. lots).

OLEIC ACID.—Price for B.P. is about 153s. per cwt.

PHYSOSTIGMINE.—Rates per kilo: 25-gm. lots are: ALKAЛОІD, 6.634s.; SALICYLATE, B.P., 5.238s.; SULPHATE, B.P.C., 5.936s.

POTASSIUM ACETATE.—B.P. is 2s. 8d. per lb. in 1-cwt. lots.

PROCAINE HYDROCHLORIDE.—1-cwt. lots are 30s. per lb.

SALICYLAMIDE.—Price (per lb.) for 1-cwt. lots is 8s. 6d.

SODIUM PERCARBONATE.—1-cwt. kegs are about 163s. (bags 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM SALICYLATE.—Rates are: 1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s. 5½d.; 1-cwt., 3s. 6d.

STEARATES.—Dearer. Prices for minimum 1-ton lots are now as follows:—ALUMINIUM (all grades), £239 10s. per ton; CALCIUM (precipitated), £217 10s.; LEAD (30 per cent.), £222; LITHIUM, ordinary quality, £456 10s.; MAGNESIUM (standard), £238 10s. and (superfine), £266 10s.; ZINC, B.P., £268 10s. and standard, £240 10s.

STILBOESTROL.—Quotations are from 1s. 2d. to 1s. 7d. per gm. as to quantity. 1-kilo lots of B.P. are quoted at 10½d. per gm. The DIPROPIONATE is about 1s.

STRYCHNINE.—Current rates per oz. are given in the following table:—

SALT	Under 25 oz.		25 oz.-	100 oz.-	500 oz.-
	s. d.	s. d.	99 oz.	499 oz.	and over
ALKALOID, B.P.C.	7 10	7 8	7 6	7 6½	7 6
BISULPHATE ..	6 8	6 6	6 4	6 3	
HYDROCHLORIDE, B.P. ..	7 5	7 3	7 1½	7 0	
NITRATE B.P.C.	7 5	7 3	7 1½	7 0	
PHOSPHATE ..	8 6	8 4	8 2½	8 1	
SULPHATE, B.P.C.	6 11	6 9	6 7½	6 6	

TREBENE.—For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are from 4s. 3½d. to 5s. 2d. per lb.

ZINC CHLORIDE.—B.P.C., cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. TECHNICAL, 135s. per cwt.

ZINC OXIDE.—Advanced. Rates for all grades advanced £3 per ton on June 16. B.P. quality is now: 2-ton lots, £120 per ton; 1-ton, £121; 5-cwt., £123; under 5-cwt., £130.

### Solvents

ACETALDEHYDE.—The 100 per cent. is 145s. per cwt. for drum lots.

ACETATES.—Prices (per cwt.) for drum lots are as follows: AMYL (technical), 240s. and (B.S. 551: 1950) 242s.; BUTYL (B.S. 551: 1950), 186s.; ETHYL (B.S. 553: 1950), 156s.

ACETONE.—Reduced. Drum lots are now 94s. per ton.

AMYL ALCOHOL.—Technical grade is £237 per ton.

BENZENE.—Thiophene-free is 9s. 0½d. per gall. in 50-gall. barrels and pure, 6s. 0½d. per gall.

BUTYL ALCOHOL (B.S. 508: 1950).—1-ton lots are quoted at £163 10s. per ton and d. um; at £166 10s. per ton.

CARBON TETRACHLORIDE, B.P.—1-2 carboy lots are £124 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £78 per ton; 1 ton and under 2 tons, £76 10s.; 2 tons and under 4 tons, £76; 4 tons and upwards, £75.

DIMETHYL ACETATE.—Drum lots are quoted at 163s. per cwt.

ISOPROPYL ALCOHOL.—Standard grade is £80 10s. per ton (5s. 7½d. per gall.) in 10-ton lots. Essence grade is from 17s. to 19s. per gall., as to quantity.

PHTHALATES.—Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s.; DIBUTYL, 2s. 1½d.; DI-ISO-BUTYL, 1s. 11½d.; DIETHYL (normal grade), 1s. 11½d.; DIMETHYL, 1s. 8½d.

## Crude Drugs

**AGAR.** — Kobé No. 1 on the spot is from 17s. to 17s. 6d. per lb. Shipment, 15s., c.i.f.

**ALOES.** — Prime Cape, spot market cleared; shipment, 180s. per cwt., c.i.f., nominal. Curaçao is 305s. on the spot and 290s., c.i.f., for shipment.

**ANISEED.** — Chinese star is offered at 200s. per cwt., duty paid and 157s. 6d., c.i.f.

**BALSAMS.** — Quotations (per lb.) are:—  
Canada: 21s. 6d. spot. *Copaiba*, B.P. from 11s. 6d. to 12s. 6d. per lb. as to source. Peru, 9s. in bond. *Tolu* (genuine as imported), is firmer at 26s., spot and 25s., c.i.f.

**BENZOIN.** — Sumatra block No. 1 on the spot is from £30 to £34 per cwt. Forward, £28 10s., c.i.f.

**BUCHU.** — New-crop leaves on the spot are offered at 3s. per lb. Old-crop available at 2s. 6d.

**CAMPHOR.** — Scarce. Powder and tablets cleared on spot. Shipment offers (c.i.f.) as follows: Tablets (Chinese),  $\frac{1}{2}$ -oz., 5s. per lb.;  $\frac{1}{4}$ -oz., 5s. 1d.;  $\frac{1}{8}$ -oz., 5s. 2d.

**CARDAMOMS.** — Aleppy greens are 15s. 6d. per lb. on the spot; prompt shipment offers are 13s. 6d., c.i.f.

**CASCARA SAGRADA.** — Firm. Offers of new-crop are 275s. per cwt., c.i.f. Spot material (old crop) value is 325s., duty paid.

**CHILLIES.** — Mombasa are 305s. per cwt. on the spot, and 280s., c.i.f., nominal.

**CINCHONA.** — Price per lb. varies from 1s. 7d. to 2s. according to test.

**COCHINEAL.** — Black brilliant is 10s. 8d. per lb.

**COLOCYNTH.** — A small quantity of pulp is offered at 1s. 10 $\frac{1}{2}$ d. per lb., duty paid.

**ERGOT.** — Quiet. Portuguese is 16s. 6d. per lb. on the spot. Portuguese for shipment, 14s., c.i.f. and East-European, 7s. 6d., c.i.f.

**GINGER.** — African on the spot is unchanged at 193s. per cwt. with new crop offers at 195s., c.i.f. Jamaican No. 3 is 230s. on the spot and 220s., c.i.f.

**GUM ACACIA.** — Kordofan cleaned sorts on the spot are quoted at 135s. per cwt. Forward shipment is firmer at 130s., c.i.f., June-July-August.

**HONEY.** — Quiet. Australian light-amber is a little easier on the spot at 100s. to 108s. per cwt. and medium-amber, 92s. 6d. to 97s. 6d. Argentine is unchanged at from 115s. to 120s. and Jamaican from 120s. to 130s.

**KARAYA.** — No. 1 gum on the spot is quoted at 265s. per cwt. and No. 2 at 175s.

**LANOLIN.** — In 1-ton lots the price of ANHYDROUS, B.P., is from 167s. to 185s. per cwt., according to texture. HYDROUS is 145s. in free drums, delivered.

**LIQUORICE.** — Natural whole root, spot: Anatolian, 60s. per cwt.; Russian, 40s.; Syrian, 35s.; Persian, 37s. 6d. Block juice quotations are 200s. per cwt. delivered. Italian stick, from 310s. to 475s. per cwt., duty paid.

**MACE.** — West Indian pale blade is 9s. per lb.; for shipment, 7s. 10d., c.i.f.

**MENTHOL.** — Spot. Chinese is about 28s. 3d. per lb., duty paid, and for shipment, 26s., c.i.f.

**MYRRH.** — Aden selected sorts are about £14 per cwt. on the spot. Siftings are from £7.

**NUTMEGS.** — West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. 7d., c.i.f., for shipment.

**PAPAIN.** — Spot value for East African grade one is 20s. per lb. Ceylon white is in limited supply at 24s.

**PEPPER.** — White Sarawak is firmer at 5s. 6d. per lb., spot, with June shipment, 4s. 1 $\frac{1}{2}$ d., quoted, c.i.f. Black Sarawak is unchanged at 4s. 6d. spot and June shipment, 2s. 11 $\frac{1}{2}$ d., c.i.f. Black Malabar, 510s. per cwt., spot; 370s., c.i.f., June shipment.

**QUASSIA.** — Jamaican is 33s. per cwt., c.i.f., nominal. Spot quotations are about 40s.

**RAUWOLFIA (SERPENTINA).** — Spot supplies are nominal; shipment offers withdrawn.

**SAFFRON.** — Mancha superior is about 152s. and selecta, 149s. per lb.

**SANDARAC.** — Moroccan is 12s. 9d. per lb. on the spot.

**SEEDS.** — (Prices per cwt.). ANISE—Spot, Cyprian, 164s.; Bulgarian, 130s. in bond. CARAWAY.—Sellers quoting 145s., duty paid for Dutch. CELERY.—Easier in view of the low prices quoted for new crop from India. Sellers now quoting 180s. spot London. CORIANDER.—Quiet. Spot, Moroccan is 60s. duty paid (55s., in bond). Shipment: new-crop for June-July quoted at 52s. 6d., c.i.f. No business yet reported. CUMIN.—Small business passing. Spot, Cyprian, 125s.; Moroccan, 127s. 6d., duty paid. Shipment, new-crop Cyprian, 120s., c.i.f.; Moroccan is 112s. 6d., c.i.f. DILL.—Indian is unchanged at 87s. 6d. spot, London. FENNEL.—Indian, 97s. 6d. spot London. FENUGREEK.—Moroccan on spot is worth 47s. 6d., duty paid. MUSTARD.—English 65s. to 86s., according to quality.

**SERPENTARIA.** — Root is offered at 37s. per lb. on the spot.

**SHELLAC.** — Spot quotations are:—F.O.T.N. pure, 292s. 6d.; F.O. standard No. 1, 305s., nominal; fine orange, 330s. to 375s. per cwt., ex-London warehouse.

**SQUILL.** — Italian white on the spot is 70s. per cwt. nominal. No. 2 is about 60s., no offers of white from origin.

**STRAMONIUM.** — Indian LEAVES are 5 $\frac{1}{2}$ d. per lb., spot and European, 97s. 6d. per cwt.

**STROPHANTHUS.** — *Kombé*, 100 per cent. is about 10s. per lb., on the spot, and *G.atus*, 17s. 6d.

**STYRAX.** — Spot is 5s. 9d. per lb., duty paid.

**TAMARINDS.** — Supplies of West Indian are offered at 50s. per cwt., duty paid.

**TONKA BEANS.** — Frosted Para on the spot are offered at 6s. per lb. No shipment offers.

**TRAGACANTH.** — No. 1 ribbon on the spot is £105 per cwt.; No. 2, £85; No. 3, £65.

**TURMERIC.** — Spot is unchanged with Madras finger quoted at 155s. per cwt., and Rajapore at 150s. Afloat parcels are offered at 125s. to 130s., c.i.f., London.

**UVA URSI.** — Spot offers are about 85s. per cwt.

**VALERIAN.** — Indian is 145s. per cwt. on the spot and from 130s. to 145s., c.i.f. Belgian, 185s., spot.

**VANILLIN.** — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

**WAXES.** — BEES'. — Dar-es-Salaam. Spot about 485s. per cwt. June shipment, 475s., c.i.f.; Sudanese, 430s., in bond and 422s. 6d., c.i.f.; Abyssinian, spot, 475s. and shipment 430s., c.i.f. Benguella, 475s. duty paid and 425s., c.i.f. CANDELILLA.—Spot is 630s. per cwt. CARNAUBA.—Prime yellow on the spot is 990s. per cwt.; shipment, 930s., c.i.f.; fatty grey is 685s. on the spot; shipment, 660s., c.i.f. MONTAN.—Reibeck, crude, 130s. per cwt., spot. SPERMACETI.—Case lots are about 1s. 9d. per lb.

**WITCH HAZEL.** — Leaves on the spot are about 1s. 9d. per lb.

## Essential and Expressed Oils

**ALMOND.** — B.P. is from 6s. to 7s. 6d. per lb., as to quantity.

**AMBER.** — Rectified on the spot is quoted at from 1s. 6d. per lb.

**BAY.** — W. Indian is 8s. 6d. to 9s. per lb. on the spot.

**BIRCH TAR.** — Rectified is about 14s. per lb. in 1-cwt. lots.

**BOIS DE ROSE.** — Brazilian on the spot is 30s. and 29s. 6d., c.i.f.

**CAJUPUT.** — Spot supplies are 15s. 6d. per lb.

**CANANGA.** — Supplies to come forward are quoted at from 60s. per lb., c.i.f. Spot is from 62s. 6d. per lb.

**CELERY.** — Quotations are from 125s. per lb.

**CHENOPODIUM.** — 1-cwt. lots are 52s. 6d. per lb.

**CITRONELLA.** — Steady. Prices (per lb.) are:—Ceylon, spot, 6s. asked; June-July shipment, 5s. 3d., c.i.f.; Java, 6s. 4d., duty paid; shipment, 5s. 9d., c.i.f.; Formosa, 6s. 4d., duty paid, and 5s. 10 $\frac{1}{2}$ d., c.i.f.

**CUBEB.** — English-distilled is 55s. per lb. and imported, 47s. 6d.

**CUMIN.** — Quotations for English-distilled oil are about 75s. per lb. and imported, 60s.

**DILL.** — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are offered at from 32s. 6d. per lb.

**EUCALYPTUS.** — Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 10 $\frac{1}{2}$ d. per lb., and 80 to 85 per cent., 5s. 3d. Spanish, 70 to 75 per cent., 4s. 6d., duty paid.

**GARLIC.** — English is from 55s. to 60s. per oz.

**GERANIUM.** — Bourbon is 81s. 6d. per lb. on the spot. Shipment, 80s., c.i.f.

**JUNIPER BERRY.** — Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 80s. per lb.

**LEMON.** — B.P. (4 per cent. citral) on the spot is 38s. to 39s. per lb. Californian, 35s. 3d. to 52s. 3d., c.i.f., as to quality, subject to licence.

**LEMONGRASS.** — East Indian is again easier at 8s. 6d. per lb. on the spot; prompt shipment, 8s. 5d., c.i.f. July-August, new-crop, 8s. 4d.

**NUTMEG.** — English-distilled oil is 35s. per lb. Imported oil is offered at 23s. 6d. per lb., duty paid for drum lots.

**ORANGE.** — Spot offers for sweet vary between 8s. and 10s. 6d. per lb. as to quality. West African is quoted at 8s. 9d., c.i.f. Bitter orange, 24s. spot. Californian sweet, 6s., c.i.f., and cold-pressed U.S.P., 9s. 3d., c.i.f., subject to licence.

**ORIGANUM.** — In original containers the price is 13s. to 14s. per lb.

**PEPPERMINT.** — *Arvensis*: Chinese is 18s. 9d. per lb., spot, and 18s. 6d., c.i.f. June-July shipment: Brazilian (45 per cent.), 17s. 3d., spot and 17s., c.i.f. for shipment. Italian "Mitcham" type oil is from 45s. to 47s. 6d. per lb. on the spot.

**PETITGRAIN.** — Paraguay on the spot is 25s. per lb., and for June-July shipment 21s. 6d., c.i.f. is quoted.

**ROSEMARY.** — Spanish oil on the spot is about 5s. 9d. per lb., duty paid, for B.P. quality.

**RUE.** — Spot offers are from 12s. 6d. per lb.

**SAGE.** — Spanish is offered at from 9s. per lb. and Dalmatian at 50s., duty paid.

**SANDALWOOD.** — Mysore is from 65s. per lb. as to quantity; East Indian, 63s. 6d.

**SASSAFRAS.** — Brazilian on the spot is nominal at 6s. per lb.

## LOCAL OFFICERS

**Blackpool Branch.**—President, Mrs. A. Greenwood; Vice-president, Mr. R. Stuttard; Treasurer, Mr. F. J. Carter; Assistant Secretary, Mr. M. W. J. Limb; Secretary, Mr. J. Wylie Croker, 160 Central Drive, Blackpool, Lancs.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Sunday, June 20

**MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS,** Zoo car park, Chester, at 2.30 p.m. Assemble for visit to Chester Zoo.

### Wednesday, June 23

**CROYDON AND EPSON BRANCHES, PHARMACEUTICAL SOCIETY,** Shirley Park Golf Club, Croydon, at 1.45 p.m. Return golf match.

**THAMES VALLEY PHARMACISTS' ASSOCIATION,** A. Wunder, Ltd., King's Langley, Herts. Coach leaves New Malden (The Fountain) at 1.30 p.m.; Kingston railway station at 1.45 p.m.; Richmond railway station at 2 p.m., for visit to farm and factory.

### Thursday, June 24

**CROP PROTECTION PANEL, AGRICULTURE GROUP, SOCIETY OF CHEMICAL INDUSTRY,** St. Pancras Station, London, N.W.1, at 8.45 a.m. Assemble for visit to Boots Pure Drug Co., Ltd., Lenton Experimental Station, Beeston, Nottingham.

## TRADE MARKS

### APPLICATIONS ADVERTISED BEFORE REGISTRATION

#### From the "Trade Marks Journal," June 2

**For veterinary preparations (5)**  
TYMPASIL, 729,016, by C. J. Hewlett & Sons, Ltd., London, E.C.2.

**For fungicides (5)**  
BLUDUST, 729,041, by Pest Control, Ltd., Cambridge.

**For medicated wines (5)**  
TRIONA, 729,309, by John Knight, Wigan, Lancs.

**For photographic apparatus and instruments (9)**  
TROLITA, TROLIX, KARATOR, 717,850, 717,814, 718,397, by Agfa Camera-Werk, A.G., Munich, Germany.

**For orthochromatic filters for use in photography (9)**  
TOPPAS, 717,851, by Agfa Camera-Werk, A.G., Munich, Germany.

**For scientific instruments (9)**  
TECAM, 728,497, by Techne (Cambridge), Ltd., Cambridge.

**For surgical gloves and gauntlets, gloves and gauntlets for x-ray operators, feeding bottle teats, baby soothers and surgical rubber goods (10)**  
CHIRCO, 724,808, by the Chichester Rubber Co., Ltd., Chichester, Sussex.

**For non-medicated toilet paper (16)**  
SEK, 721,943, by Scrol, Ltd., London, W.I.  
WOOLTEX, 728,655, by Dick Wright & Son, Ltd., trading also as the Gee Tee Co., Stanmore, Middlesex.

**For hair nets, hair pins, hair clips, hair slides, hair curlers, and hair wavers, all for attachment to the hair (26)**

LADYSHIP, 723,546, by A. C. Gill & Cleaver, Ltd., Nottingham.

#### From the "Trade Marks Journal," June 9

**For fertilisers (1)**  
SUSTRATUM, 728,317, by Eiler Theodore Lehn Schioler, Dorking, Surrey.

**For deodorants (5)**  
OSMIX, 725,440, by Airkem, Ltd., London, W.I.

**For pharmaceutical preparations (5)**  
Label for Limpenny's lung tablets good for a cold, B726,684, by Whiteheads (Nottingham), Ltd., Bulwell, Nottingham. DYNOMINS, 727,307, by William Aubron Godden & Fran-

cis Henry Carr, London, E.C.4. JECTOMYCIN, 727,949, by Glaxo Laboratories, Ltd., Greenford, Middlesex. BASIVITE, 729,525, by E. R. Squibb & Sons, London, W.I.

SYRUGH, 729,740, by Cuxson Gerrard & Co., Ltd., Oldbury, Worcs. BAYTENAL, SONTOPRIM, 729,752-755, by Farbenfabriken Bayer, A.G., Germany.

## C. & D. WEEKLY LIST OF PRICE CHANGES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; \* = Tax 25 per cent.; † = Tax 75 per cent.

### RIKER LABORATORIES, LTD. (from June 21)

	I.R.P.	
bottle of 60	18 0 R	
500	126 0 R	
		Applications for credit on stocks held on June 19 should quote batch numbers and names of wholesalers from whom obtained.

### KYLON, LTD.

Disposable vaginal applicators, carton of 50	4 2
set of 1 doz. packed with a tube of Kylon vaginal jelly	1 0
(price does not include jelly)	

### P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association.)

### COUNTY LABORATORIES, LTD. (from June 14)

Brylcreem†, tubs,	Doz.	
A.44 junior	9 4	1 8 A
A.47 medium	14 0	2 6 A
A.48 large	25 4	4 6 A

### GENATOSAN, LTD. (addition)

Zictol 2-oz. tube*	36 0	4 9
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### HEATHER PARK LABORATORIES, LTD. (correction)

Glucozime is being retained in the protected list.

### ROBERTS & CO. (additions)

Colval*	20	3	2	8
Robuval*	40	oz.	144	0
	80	oz.	252	0
Valitone*	4	oz.	31	6
	40	oz.	240	0
		Each		
	80	oz.	37	6
			59	43

### SCRAM PRODUCTS, LTD. (addition)

Puffem, 2-oz. puffer tin	1	0
box of 24	17	0

DELETIONS FROM PROTECTED LIST

### SCRAM PRODUCTS, LTD.

Beetlescrum

### TRUFOOD, LTD.

Humanised Trifood; Follow-on Trifood.

### NEW PRODUCTS AND PACKS

#### ALLEN & HANBURY'S, LTD.

Acid hydrolysed casein (for microbiological assay)	Each
100-gm. bottle	31 6
500-gm. bottle	147 0

#### J. C. & J. FIELD, LTD.

Keg haircream†	2 6
----------------	-----

#### ALFRED FRANKS & BARTLETT CO., LTD.

Protector sunglasses:	
with Crookes lenses	7 6
with Rhodoid unbreakable lenses	5 11

#### WESTBROOK LANOLIN CO.

Sun-proof cream,	
2-oz. tube†	4 1

## C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for May 1954 was 198

Cost	Item	Poison Class	4 oz.	1 oz.	1 dr.
d.	per		s. d.	s. d.	s. d.
132	Anthemidis exot.		4	3	0 2
48	Areca pulv.		1	7	0 5½
84	Buchu		2	9	0 9 0 2
26	Calcii acetylsalicylas		—	4	3 0 7½
138	Camphora		—	1	7 0 3
94	Cetrimidum		—	3	11 0 7
36	Conspers. zinc. oxid. et ac. salicyl.		1	3	0 4½
150	Dec. sarsap. co. conc.		4	10	1 4 0 3
273	Exc. ipecacuanha liquidum		—	—	1 8
56	Hyd. oxid. flav.	P.I. (8)	—	—	1 7
56	Hyd. oxid. rub.	P.I. (8)	—	—	1 7
65	Hyd. oxycyanidum	S.I. (4)	—	—	1 9
50	Hyd. perchloridum	S.I. P.II. (4)	—	—	1 4
222	Potassii iodidum		7	2	2 0 4
270	Sodium p-amino salicylate		9	4	2 9 0 5
94	Sulphadiazina	S.I. R only	—	—	2 6
52	Theobromina		—	—	1 5
138	Ulmii fulvae pulv.		4	6	1 3 0 2½
45	Ung. acidi salicyl. et sulph.		1	5	0 5 0 1
66	Ung. hyd. oxid. flavi	P.I. (9)	2	2	0 8 0 2

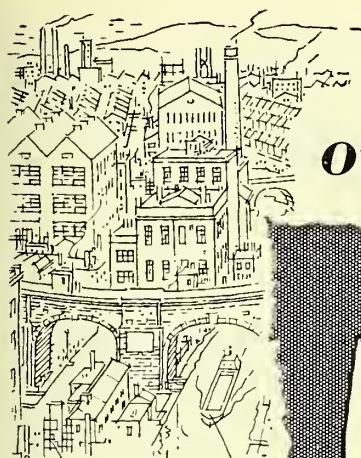
### INJECTIONS

Poison Class	Cost	Selling	Cost	Selling
	½ doz.	½ doz.	d.	s. d.
P.I. (13)	26	3	75	9 4
P.I. (13)	26	3	75	9 4
	52	6	—	—
	52	6	—	—
S.I. (5)	27	3	76	9 6
	38	4	—	—
	52	6	—	—
	30	3	—	—
	30	3	—	—
	36	4	—	—
	48	6	—	—
	25	3	—	—
	33	4	—	—
	48	6	—	—

### TABLETS

Poison Class	Selling
s. d.	s. d.
S.I. (4)	0 11
S.I. R only	1 6
	1 3
	2 0
	7 2

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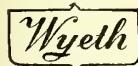
Benzathine Penicillin	-	-	-	600,000 units
Procaine Penicillin G	-	-	-	300,000 units
Potassium Penicillin G	-	-	-	300,000 units

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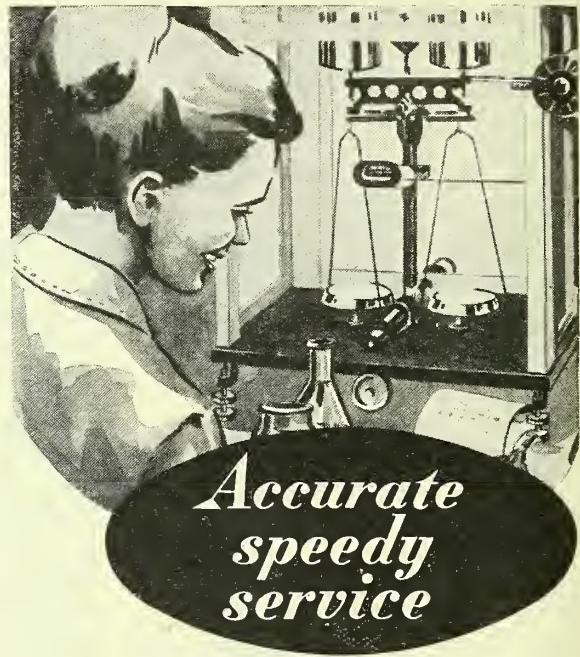
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WHEN WET.

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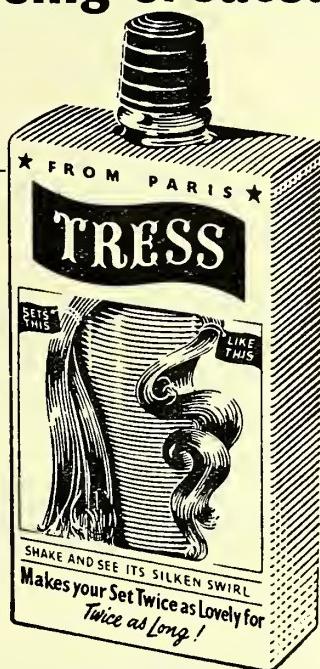
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75% Tax

RETAIL PRICE 2/8d. per bottle



### TRILL

TRADE PRICE 13/8d. per doz.

75% Tax

RETAIL PRICE 2/6d. per tube



### COLORAL

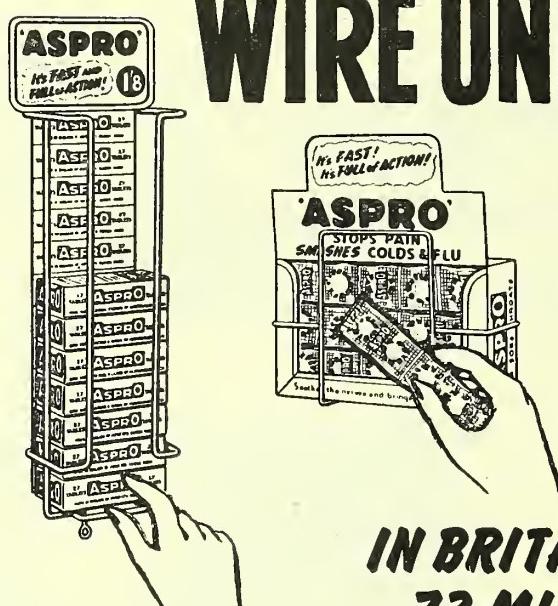
TRADE PRICE 6/2½d. per doz, cards

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RETAIL PRICE 1/2d. per card of two rinses

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73 MILLION PEOPLE SAY—**

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20 TIMES STRONGER THAN ORDINARY WARFARIN BAIT  
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The new and certain rodent killer

It is bound to be your biggest seller.

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Retail prices, in tins:  $\frac{1}{2}$  lb. 4/-, 1 lb. 13/6, 7 lbs. 73/6,

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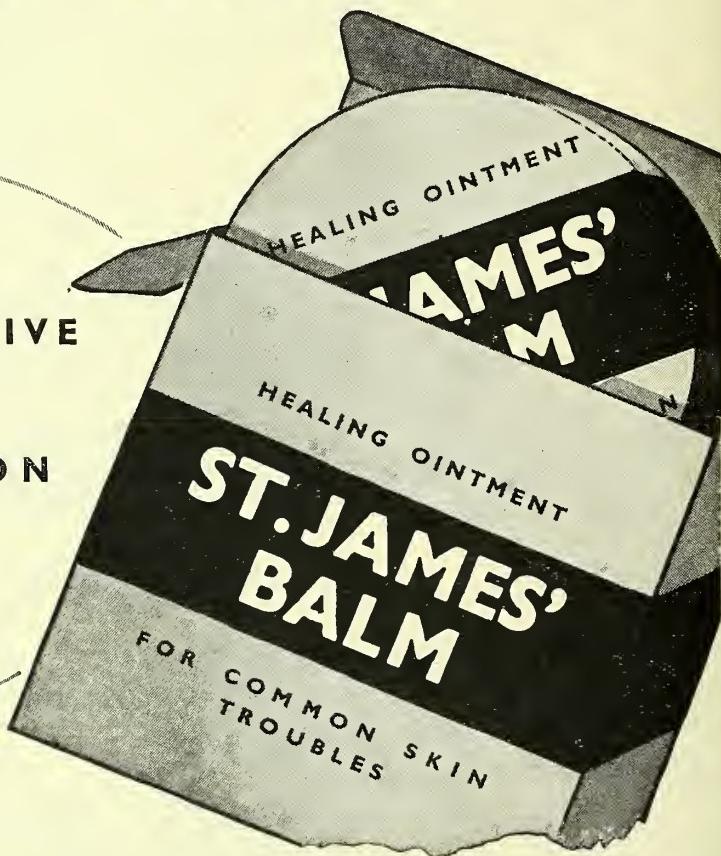


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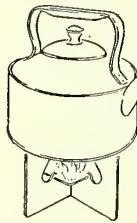
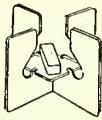
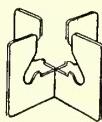
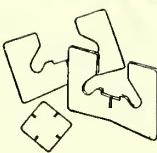
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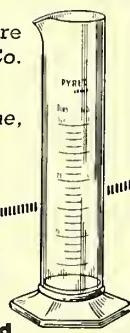
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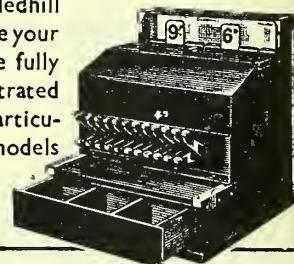
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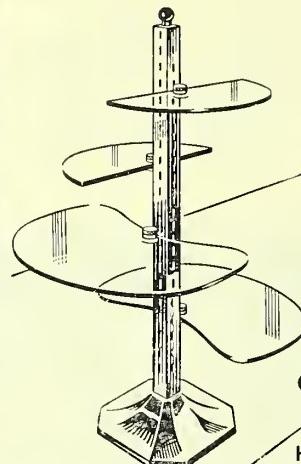
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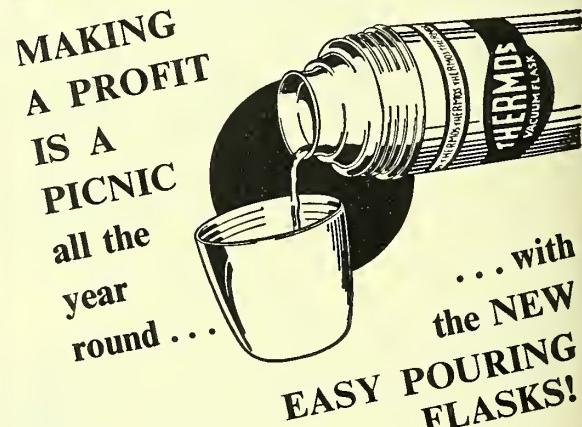
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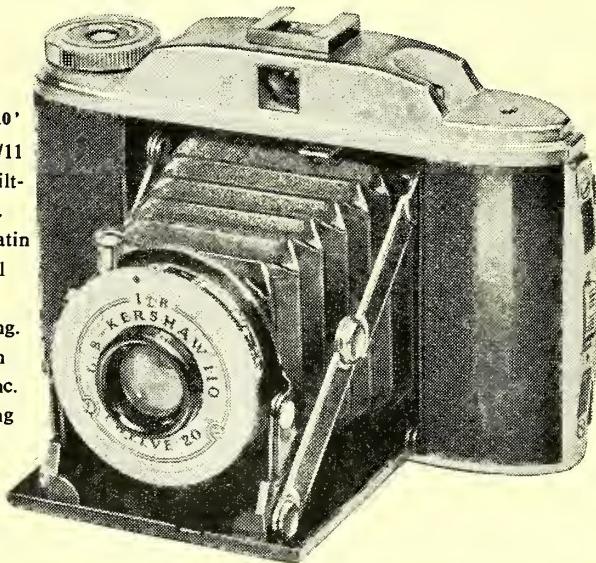
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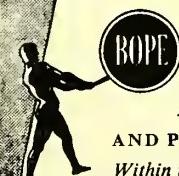
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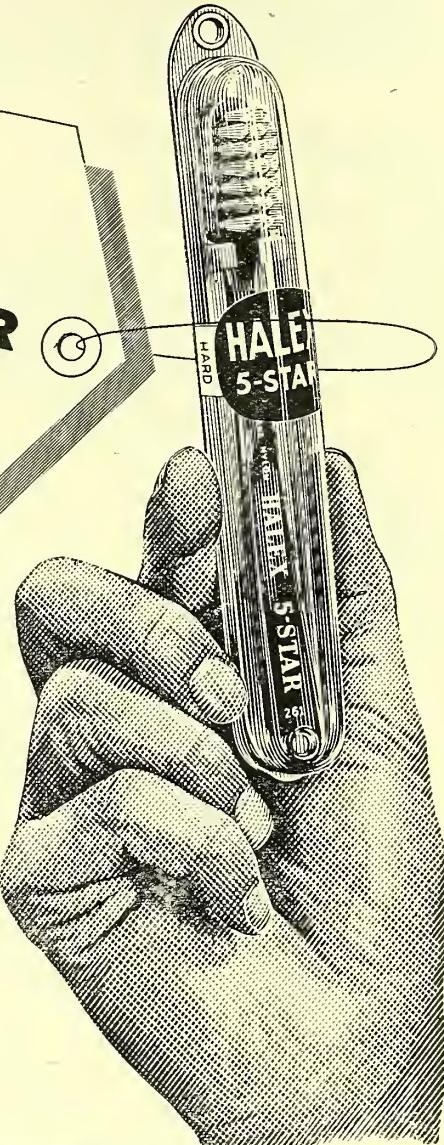
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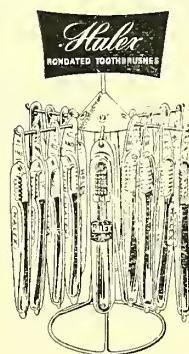


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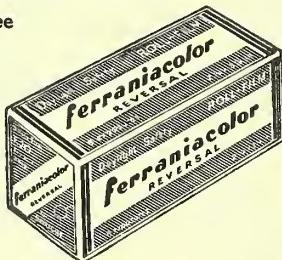
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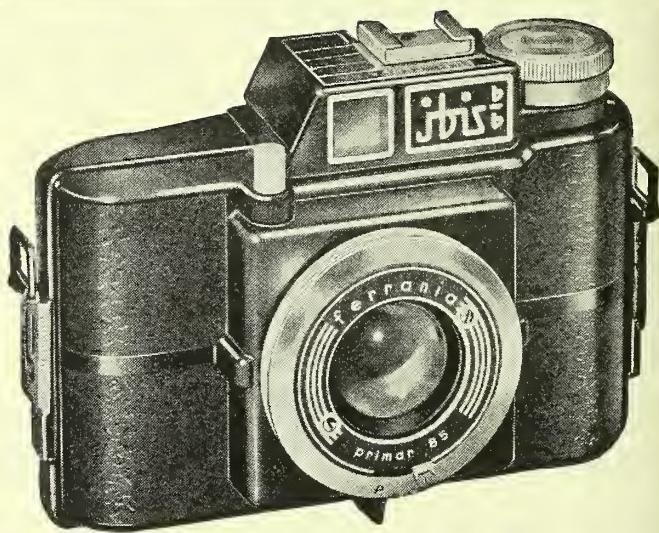
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(Male or Female)

Applications invited for the above posts. Whitley Council salary and conditions of service. Applications, with copies of testimonials, to the Secretary, Stepney Group Hospital Management Committee, Rainey Street, Wapping, E.1. C 7145

**ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1**

Locum Pharmacists

Immediate vacancies exist for locum pharmacists until the end of September. Wage £15 15s. per week. Write, enclosing copies of testimonials, to the Chief Pharmacist. C 7125

**184 STRAND, W.C.2**

Tel.: TEMple Bar 9212/3 & 6340

**NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE**

Pharmacist

Applications are invited for the appointment of Pharmacist at the Highbury and Heathfield Hospitals, Nottingham, to commence duties mid-June. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council regulations. Salary £450 x £25—£575 per annum, plus extra qualification allowance where applicable.

Applications, stating age, qualifications and experience, together with names of two referees, to be sent as soon as possible to the Secretary, General Hospital, Nottingham,

C 7143

**NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE**

Senior Pharmacist (Category V)

Applications are invited for the appointment of Senior Pharmacist (female) at the General Hospital, Nottingham, to commence duties mid-July next. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council regulations. Salary £525 x £25—£625 plus extra qualification allowance where applicable.

Applications, stating age, qualifications and experience, together with names of two referees, to be sent as soon as possible to the Secretary, General Hospital, Nottingham. C 7144

**ST. GEORGE'S HOSPITAL TEACHING GROUP**

Chief Pharmacist (Category 1)

Applications are invited for the appointment of Chief Pharmacist (non-resident) at Atkinson Morley Hospital, Copse Hill, Wimbledon, S.W.20, which is for treatment of in-patients only (neurosurgical, psychiatric and recovery). Salary £575 x £25 to £675 plus London Weighting. Whitley Council conditions. Applications in writing, giving full details and names of two referees, to be forwarded to the Chief Pharmacist, St. George's Hospital, London, S.W.1. C 7061

**ST. GEORGE'S HOSPITAL, HYDE PARK CORNER, LONDON, S.W.1**

Pharmacist

Applications are invited for the post of Pharmacist at above teaching hospital. Salary in accordance with the Pharmaceutical Whitley Council scale. Applications, with full particulars, to Chief Pharmacist. C 7060

**THE GORDON HOSPITAL, VAUXHALL BRIDGE ROAD, LONDON, S.W.1**

Part-time Assistant in Dispensing

Applications are invited for the above post starting immediately and should be sent to the Secretary. C 191

**THE LONDON HOSPITAL, WHITECHAPEL, LONDON, E.1**

Pharmacist

Applicants must be registered Pharmacists. Salary scale £450 (age 23) x £25 to £575 plus London Weighting according to previous experience and service. Dining-room facilities available. Write Secretary. C 179

**THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1**

Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£525) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist. C 166

**THE LONDON HOSPITAL, WHITECHAPEL, LONDON, E.1**

Locum Registered Pharmacists

required to mid-October 1954. Salary £14 14s. per week. Dining-room facilities. Write Secretary. C 186

**THE UNITED BIRMINGHAM HOSPITALS, QUEEN ELIZABETH HOSPITAL, EDGBASTON, BIRMINGHAM, 15**

Pharmacist

Applications are invited for the post of Pharmacist at the Queen Elizabeth Hospital. This post provides a unique introduction to Hospital Pharmacy in the main unit of a progressive teaching group. The Pharmacy is spacious and well-equipped and includes laboratories for pharmaceutical manufacturing and sterile products.

Salary according to Whitley Scale £450—£575 per annum, governed by age and experience. Apply giving names of two referees, to the Chief Pharmacist. C 7166

**SITUATIONS OPEN**

8/6 for 36 words (min.) then 3d. per word.  
Box 2/-

**RETAIL (HOME)**

**BRIXTON.** Experienced young lady counter assistant required. Full or part-time. Knowledge of dispensing an advantage but not absolutely necessary. Good wages, Holiday this year. Apply Pembro, 69 Loughborough Road, Brixton, S.W.9. (Bri. 1475.) C 1416

**DISPENSERS,** qualified and unqualified, required. Apply J. T. Davies (Chemists), Ltd., 13 Walter Road, Swansea, C 1402

**ILFORD.** Experienced pharmacist required for modern, well-equipped branch with heavy dispensing connection. The salary and monthly bonus to be paid would be commensurate with duties involved, and accommodation can be provided should it be so desired. Application in first instance, giving full details as to experience, etc., and when available for interview, to Chief Pharmacist, Grange Road, Leyton, E.10. C 1400

**PAIGNTON.** Assistant (lady) take charge cosmetic, perfumery, and packed drugs, counter, Full particulars to Bathes, Ltd. (Head Office), 24 Fleet Street, Torquay. C 1412

**PHARMACIST** required to manage pleasant family business, Wembley Park. Easily run with good supporting staff. Write Cooper & Wood, 95 Wembley Park Drive, Wembley Park, or phone Wem. 1402. C 1344

**WELL-KNOWN MANUFACTURING CHEMISTS** in North-west London have vacancy for chemist with pharmaceutical qualifications for analytical control of main products and to take charge of laboratory. The position is a permanent one and has prospects. Modern factory. Pension scheme. Canteen, 5-day week. Salary according to age and experience. Apply to Managing Director, Box C 7154.

### Situations Open—Continued

**REQUIRED URGENTLY**, chemist optician to manage pharmacy. Manchester district. Apply Box C 1409.

**PHARMACIST REQUIRED** to take charge chemist shop in Rhondda Valley, South Wales. State experience and salary required. Box C 1424.

**QUALIFIED MANAGER** required for branch business in Kent mining town. Competent dispenser kept. Apply Box C 1420.

**UNQUALIFIED ASSISTANT** required, for dispensing and counter. Whole or part-time. State age, experience, salary expected, and when available, to W. J. Boyes, Ltd., 61 Balham Hill, S.W.12. C 1418

**WANTED**: Pharmacist (male or female) as superintendent. House available, rent free. Apply, stating wages required, to the Garn-daffaith & Varteg Co-operative Society, Ltd., Garndaffaith, Mon. C 1386

### LOCUMS WANTED

**LOCUM PHARMACISTS** required for London and suburban areas, long or short periods June to October. Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 1401

**LOCUM WANTED**, dispenser, for June 28 until July 17 inclusive for firm of doctors. Apply at once to (owing to illness) Mr. R. Sewter, 8 Newnham Avenue, Bedford. C 1411

**HENDON CENTRAL**. Dispensing locum required from August 16 to 21 inclusive. Full supporting staff. Wooltons, 256 Hendon Way, N.W.4. Hendon 3343. C 1423

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**HOLDSWORTHS (CHEMISTS), LIMITED**  
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Northern Rhodesia

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**NYASALAND**: Pharmaceutical Chemist, male or female wanted. Salary £960 plus £60 p.a. to £1,200. Rent-free quarters. Four-year tour of service with six months leave. Apply Kepp Brothers, Ltd., Gt. Charles St., Birmingham, 3. C 7158

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**A LONG-ESTABLISHED** and rapidly expanding firm of manufacturing chemists require a young man between 24-32 years of age, preferably with public school education, as an assistant to the sales director. He must be fully mobile, energetic, possess own car and with some experience of selling to the chemist trade. Salary would be adequate and according to experience and qualifications, but the prospects are limitless. Write giving full details to the Personnel Manager, Box C 7168.

**ANALYTICAL ASSISTANT** (male or female) for control laboratory. Five-day week. Non-contributory pension scheme. Canteen, Chiswick area. Box C 7173.

**ADDIS, LTD.** (makers of Wisdom) require an additional representative for Scotland, north of Glasgow. Applicants should have experience of calling on chemists. The position is interesting, progressive and pensionable. Salary, commission, expenses and car allowance. Write, giving details of age, experience, salary required and whether car owner or not to Addis, Ltd., Brushworks, Hartford. C 7167

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**AN INTERNATIONALLY KNOWN** pharmaceutical organisation have vacancies for medical representatives in (a) Bristol area, (b) S. and W. London areas, (c) Lincolnshire. Applications are invited from pharmacists and others with a pharmaceutical or medical background. Remuneration will be according to qualifications and experience; contributory pension scheme. Opportunities exist for promotion to executive posts in the U.K. organisation and overseas, where aptitude and ability have been demonstrated. Apply initially in writing giving full details of qualifications and experience to Box C 7152.

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**AYRTON, SAUNDERS & CO., LTD.**, require pharmaceutical chemist for analytical and research work, preferably with some experience. Applicant will be encouraged to work for A.R.I.C. if not already so qualified. Full details of age, qualifications and experience to Technical Director, 34 Hanover St., Liverpool, 1. C 7170

**BRITISH CHEMOTHERAPEUTIC PRODUCTS, LTD.**, require additional representatives for the Yorkshire area, based in Leeds. Car owner preferred. Established connection among chemists and wholesalers preferred. Good salary, commission and expenses. Replies in strictest confidence to: Grant Street, P.O. Box 242, Bradford. C 7160

**CHEMIST REQUIRED** by progressive, internationally known firm in Southern England. Degree in chemistry, or equivalent, with some experience in cosmetic or pharmaceutical fields essential. Preferably age 30-40. Salary according to qualifications and experience, but minimum of £1,000 p.a. Rapid progress and bright future for man of ability and real enthusiasm. Write fully to Personnel Manager, Box C 7169.

**COOPER, McDougall & Robertson, LTD.**, Berkhamsted, Herts, require an additional veterinary representative, to contact members of the veterinary profession in the Northern Counties of England and parts of Scotland. This is an interesting position, offering prospects to the successful applicant, who must have experience in the veterinary and/or medical fields. A pharmaceutical qualification is desirable but not essential. Preference will be given to candidates well versed in veterinary therapeutics and living near the Border. Salary in keeping with the qualifications demanded; car provided, expenses paid, position pensionable. Replies, addressed to the Home Trade Manager, will be treated in strict confidence. C 7155

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**EXPERIENCED** medical representative with good contacts required by firm of leading manufacturing chemists marketing ethical proprietaries in the United Kingdom. Good salary and generous expenses allowed. Car owner essential. Pension scheme. Please give full details of experience in initial application. Box C 7159.

**EXPERIENCED MAN** required with first-class working knowledge pill and tablet making and coating. Age over 40. London. Write age, salary and experience. Box C 1408.

**EXPORT ASSISTANT.** Export sales manager of important and progressive company (London area) needs an assistant who would deal with correspondence and promotion. Pharmaceutical qualification or background and language(s) desirable. Good prospects for right man. Age 22-27. Fullest details with present salary. Box C 1384.

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**LONDON PHARMACEUTICAL HOUSE** requires representative to retail chemists in the Manchester, Liverpool district, with strong connection in the area. Experience in proprietary selling and use of own car desirable. Salary, expenses and commission, Box C 7156.

**MIDLAND MANUFACTURING COMPANY** requires a young pharmacist for general and aseptic laboratories. Five-day week. Pension scheme. House available if required. Apply giving particulars of experience and salary required to Box C 7135.

**OLD-ESTABLISHED** manufacturing chemists specialising in essential oils, essences, etc., require chemist for their research and manufacturing laboratories in East Yorkshire. Pharmaceutical qualifications essential and experience in pharmaceutical manufacture and analytical control desirable. Permanent position with opportunities. Salary commensurate with abilities. Pension scheme. Full particulars including age and copy references to Box C 7147.

**PARKE, DAVIS & COMPANY, LIMITED**, invite applications from young pharmacists for an interesting appointment in sales department in which initiative and organising ability are required. The appointment is progressive and pensionable with 5-day week and staff restaurant facilities available. Applications in writing to Personnel Manager, Staines Road, Hounslow, Middlesex. C 7164

**PARKE, DAVIS & CO., LTD.**, invite applications for the position of production assistant in their advertising and promotion department to handle the production of catalogues, leaflets, and periodical publications for home and export markets. Some supervision of Press schedules will also be required. Good knowledge of design, briefing for artwork, ordering of blocks and buying of print essential. Some familiarity with foreign languages an advantage. 5-day week, pension scheme, staff canteen. Write enclosing full particulars of experience and salary required to Personnel Manager, Staines Road, Hounslow, Middlesex. C 7132

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**TOKALON, LTD.**, require an additional representative for South Western territory. Applicants must be car owners and existing connections with chemists will be an advantage. Remuneration by salary, commission, car allowance and expenses. Write stating age and experience to Tokalon, Ltd., 24 Gilbert St., London, W.1. C 1414

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**WHOLESALE CHEMISTS'** sundriesmen require first-class representative for Kent, Surrey and Sussex. All accounts will be handed over. Write stating experience, and if car owner. Apply Box C 1425.

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**SOUTHERN RHODESIA.** Representatives, May & Baker, Ltd., Dagenham, Essex, invite applications from pharmacists to fill vacancies arising as a result of expansion in the Central African territories. These positions will be filled by men aged 25/33 years, of good personality, with sound commercial experience, and for preference, some medical or scientific background. Full training will be given prior to overseas appointment. Apply initially in writing giving full details of qualifications and experience to the Personnel Officer. C 7128

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